

Academic Catalog, 2018-2019

First Edition September 2018



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Cincinnati State Technical and Community College

Academic Catalog 2018-2019

The Cincinnati State Catalog for 2018-2019 provides information about the range of educational programs and services we offer our students. Within this catalog, you'll find descriptions and graduation requirements for more than 100 degree and certificate programs, and descriptions of every course offered at Cincinnati State.

You'll also find information about student services, students rights and responsibilities, and other information to help you succeed at Cincinnati State.

Cincinnati State is a great place to be, and we invite you to learn more about what being a student at Cincinnati State will mean for you.

If you find errors in this catalog, please notify Pamela. Ecker @cincinnatistate.edu (pamela. ecker @cincinnatistate. edu).

All statements in this Catalog are announcements of present policy only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

Throughout this Catalog, trademark names are used. Rather than placing a trademark symbol after every occurrence of a trademarked name, we used the names in an editorial fashion only, and to the benefit of the trademark owner, with no intention of infringement of the trademark. Where such designations appear in this document, they have been printed with initial capital letters.

Cincinnati State Technical and Community College does not discriminate on the basis of race, age, color, handicap, sexual orientation, national origin, or gender in the admission of students or in any activity conducted by Cincinnati State.

Cincinnati State Technical and Community College is an equal opportunity institution.

Academic Calendar

Additional information about registration and deadlines is available in the Calendars (http://www.cincinnatistate.edu/academic-calendar) section of the College website.

Please note that all dates are subject to change.

Fall Semester 2018

| August 27 | First Day of Classes - Full Semester and First Seven Week Session |
|------------------------------|---|
| September 3 | College Closed - Labor Day |
| October 3 | First Day of Classes - Ten Week Session |
| October 13 | Last Day of Classes - First Seven Week Session |
| October 22 | First Day of Classes - Second Seven Week Session |
| November 9 | College Convocation - No Classes |
| November 12 | College Closed - Veteran's Day |
| November 21 - November 25 | College Closed - Thanksgiving Break |
| December 15 | Last Day of Classes - Full Semester, Ten Week Session, and Second Seven Week Session |
| December 24 - January 1 | College Closed - Winter Break |

Spring Semester 2019

| December 24 - January 1 | College Closed - Winter Break |
|----------------------------|---|
| January 7 | First Day of Classes - Full Semester and First Seven Week Session |
| January 21 | College Closed - Martin Luther King Day |
| February 11 | First Day of Classes - Ten Week Session |
| February 18 | College Closed - President's Day |
| February 23 | Last Day of Classes - First Seven Week Session |
| March 4 | First Day of Classes - Second Seven Week Session |
| March 18 - March 24 | Spring Break - No Classes |
| April 27 | Last Day of Classes - Full Semester, Ten Week Session, and Second Seven Week Session |

Summer Semester 2019

| May 6 | First Day of Classes - Full Semester and First Seven Week Session |
|-----------|--|
| May 13 | First Day of Classes - Thirteen Week Session |
| May 27 | College Closed - Memorial Day |
| June 22 | Last Day of Classes - First Seven Week Session |
| July 1 | First Day of Classes - Second Seven Week Session |
| July 4 | College Closed - Independence Day |
| August 10 | Last Day of Classes - Thirteen Week Session |
| August 17 | Last Day of Classes - Full Semester and Second Seven Week Session |

Academic Divisions and Degree & Certificate Programs

Cincinnati State Technical and Community College has four academic divisions which offer college credit-bearing courses:

- · Business Technologies
- Center for Innovative Technologies
- · Health and Public Safety
- · Humanities and Sciences

The College offers a variety of educational programs that lead to associate's degrees. Full-time students can complete these programs in two years or less; however, many students take longer to complete their degree requirements.

Technical associate's degree programs are intended to prepare students for employment immediately after graduation, although the credits earned in these programs also are transferable to four-year colleges and universities.

The technical associate's degrees awarded are:

- · Associate of Applied Business (AAB)
- Associate of Applied Science (AAS)
- · Associate of Technical Study (ATS)
- · Associate of Individualized Study (AIS)

In this catalog the AAB and AAS degree programs, as well as some ATS programs, are described within the academic divisions that offers these programs. General guidelines for the AIS and ATS degrees appear later in this section.

University-parallel associate's degree programs (sometimes referred to as "bachelor bound" or "transfer" degrees) are intended to prepare students for immediate transfer to a four-year college or university, by providing the courses required for the first two years of a bachelor's degree. Students who complete these degrees are given preferential consideration for admission to a public university in Ohio.

The university-parallel degrees awarded are **Associate of Arts (AA)** and **Associate of Science (AS)**. These associate's degree programs are described within the academic divisions that offer these programs.

In addition to associate's degree programs, the College offers many certificate programs that prepare students for specific occupational situations. These certificate programs usually can be completed in less time than is required to complete an associate's degree. Certificate programs are described within the academic divisions that offer these programs.

The College also offers courses and services to assist students who may need additional preparation or support in order to be successful in achieving their academic goals.

Some college credit-bearing courses and certificates are offered by the College's Workforce Development Center. These programs are described within the Workforce Development Center (p. 363) section of this catalog.

Business Technologies Division

Division Office: Main Building Room 330, Clifton Campus

Division Phone Number: (513) 569-1620

Cincinnati State's Business Technologies Division provides specialized business education by offering several programs that lead to an Associate of Applied Business degree, as well as programs leading to an Associate of Arts in Pre-Business Administration, an Associate of Applied Science in Dietetic Technology, an Associate of Science in Pre-Nutrition Science, and a variety of certificate programs.

Organized job experience through cooperative education work assignments with leading business firms is a key component of the learning program. Business coursework, along with job-related activities during co-op terms, provide students with business skills and business experience.

Credits earned in the degree programs are transferable. Cincinnati State has established articulation agreements with the University of Cincinnati, Bowling Green State University, Franklin University, Miami University (including regional campuses), Mount St. Joseph University, Northern Kentucky University, Rochester Institute of Technology, Thomas More College, Union Institute and University, Western Governors University, Wilmington College, Wright State University, and Xavier University.

College Orientation

To set the stage for success in the college experience, degree-seeking students are required to complete a college First Year Experience (FYE) course within the first 12 credit hours taken at Cincinnati State.

Entrance Competencies

In order to ensure a high degree of success in academic studies in Business Technologies, entering students must meet established academic levels in mathematics, communication skills, and reading comprehension. To aid in determining these levels, entering students are required to take the college placement test. If testing and previous academic background indicate that a student has not reached the necessary preparatory level, an advisor will identify a group of classes to help the student reach needed levels. Preparatory classes are available year-round.

Cooperative Education

Cincinnati State's Cooperative Education program (co-op) is a pathway to career success. Cooperative Education allows students to apply concepts learned in the classroom through paid positions with varied employers, while also earning academic credit. A successful co-op experience greatly increases a student's competitive advantage in the business community after graduation. All degree-seeking students in the Business Technologies Division (except in the Dietetic Technician, Dietary Manager, and Pre-Nutrition Science programs) must earn credits in cooperative education in order to graduate.

Students complete two prerequisite courses, a First Year Experience (FYE) course and the Professional Practices course BUS 190, to prepare for their Cooperative Education experience. The FYE course

prepares students for success in college. The Professional Practices course focuses on fundamental skills for gaining employment, resume writing, interviewing, professional etiquette, and business ethics. As the final step in completing the Cooperative Education program prior to graduation, and to build a foundation for lifetime good citizenship, students also complete 20 hours of documented volunteer community service.

Co-op employers are partners in education and play a vital role in student development. Students work directly with their Cooperative Education Coordinator in a structured, managed, and evaluated program to help realize their personal career goals.

For co-op eligibility requirements, registration policies, program options, and other issues related to the cooperative education program, please refer to the Cooperative Education Program (http://catalog.cincinnatistate.edu/academicpoliciesandprocedures/cooperativeeducationprogrampolicies) section of this Catalog.

Transfer Module

The Ohio Department of Higher Education developed the Ohio Transfer Module to facilitate transfer of credits from one Ohio public college or university to another. The transfer module contains 36 to 40 semester hours of course credits in the areas of communication, mathematics, arts and humanities, social and behavioral sciences, and natural and physical sciences. A transfer module completed at one college or university automatically meets the requirements for the transfer module at another college or university once the student is admitted. For additional information, see the State of Ohio Policy for Institutional Transfer (p. 174) and the Transfer Module (p. 161) sections of this catalog.

Associate's degree programs in the Business Technologies Division contain in their curricula 15 credit hours of general education courses related to the transfer module. The Pre-Business Administration and Pre-Nutrition Science degrees contain the entire transfer module. Students who wish to complete the transfer module should schedule the additional courses in consultation with their academic advisor. Students who transfer to an Ohio public university for baccalaureate degrees will find that the Cincinnati State Associate of Applied Business degree, and other associate's degrees, combined with a transfer module showing grades of C or higher receives preferential consideration at the receiving institution.

Accounting Technologies

The Accounting degree program provides students with an understanding of accounting skills and knowledge of business fundamentals. Students learn about all facets of the accounting profession, and enhance their skills through cooperative education work experience.

The Accounting program also offers three certificates:

- The Accounting Certificate is for those who have earned a degree in a different discipline and need accounting courses to prepare for the CPA exam, or those who may need accounting courses for job promotion. This program is best suited for students currently employed in the accounting field.
- The Bookkeeping Certificate prepares individuals for employment as a bookkeeper in a small or medium-sized organization, along with preparation needed to take a national certification exam.

 The Tax Practitioner Certificate prepares individuals to prepare federal, state, and local tax returns as well as tax forms required for trusts, estates, and nonprofit organizations. Students also gain experience by participating in the Volunteer Income Tax Assistant (VITA) program of the Internal Revenue Service.

For more information, please contact the Business Technologies Division at (513) 569-1620.

Accounting (ACC & ACCTC)

Accounting (ACC)

The Accounting degree program provides students with an understanding of accounting skills and knowledge of business fundamentals. Students enhance their skills through cooperative education.

Students are exposed to all facets of the accounting profession, including intermediate accounting, tax accounting, cost accounting, computerized accounting, and auditing.

Upon graduation, students will have a variety of employment opportunities in the accounting field. For further advancement, many students elect to continue their education at an area college or university.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Accounting Certificate (ACCTC)

The Accounting Certificate program at Cincinnati State is for those who have earned a degree in a different discipline and need accounting courses to prepare for the CPA exam, or those who may need accounting courses for job promotion. This program is best suited for students currently employed in the accounting field. The certificate does not include cooperative education.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Accounting (ACC)

| Semester 1 | | Lec | Lab Cr | edits |
|--------------|------------------------------|-----|--------|-------|
| ACC 101 | Financial Accounting (T) | 2 | 2 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |

| IM 10X | | 0 | 2 | 1 | Electives | | |
|-----------------------------------|---|----|------------|-----|--------------------------------|---|---|
| Computer | | | | | First Year Experience Elective | | |
| Software Elective (B) | | | | | FYE 100 | College Survival Skills | 1 |
| Semester 2 | | | | | FYE 105 | College Success Strategies | 2 |
| ACC 102 | Managerial Accounting (T) | 2 | 2 | 3 | FYE 110 | Community College Experience | 3 |
| ACC 102 | Managenal Accounting (1) | 1 | 2 | 2 | | ftware Elective | Ū |
| Accounting Software | | ' | 2 | 2 | IM 106 | Introductory Electronic Word Processing: Microsoft Word | 1 |
| Elective (T) BUS 190 | Professional Practices (B) | 1 | 0 | 1 | IM 107 | Introductory Electronic Presentations: Microsoft PowerPoint | 1 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel (B) | 2 | 3 | 3 | IM 109 | Introductory Database Management: Microsoft Access | 1 |
| MAT XXX | | 3 | 0 | 3 | Mathematics | Elective | |
| Mathematics | | | | | MAT 111 | Business Mathematics | 3 |
| Elective (G) | | | | | MAT 115 | Pre-Statistics | 3 |
| Semester 3 | | | | | MAT 131 | Statistics 1 | 3 |
| ACC X9X | | 1 | 40 | 2 | MAT 151 | College Algebra | 4 |
| Cooperative | | | | | MAT 215 | Business Calculus | 6 |
| Education Elective 1: | | | | | MAT 251 | Calculus 1 | 5 |
| Accounting | | | | | MAT 252 | Calculus 2 | 5 |
| (T) | | | | | | oftware Elective (2 credit hours required) | Ū |
| ENG 10X English | | 3 | 0 | 3 | ACC 115 | Accounting Software Applications: Sage (Peachtree) | 2 |
| Composition | | | | | or take the f | following sequence: | |
| Elective (G) Semester 4 | | | | | ACC 121 & ACC 122 | Computerized Bookkeeping: QuickBooks 1 and Computerized Bookkeeping: QuickBooks 2 | 2 |
| ACC 135 | Financial Statement Analysis (T) | 2 | 0 | 2 | Accounting E | lective | |
| ACC 175 | Federal Taxation: Individuals (T) | 3 | 0 | 3 | ACC 130 | Payroll Procedures | 3 |
| ACC 201 | Intermediate Accounting 1 (T) | 4 | 0 | 4 | ACC 140 | Fund Accounting for Non-profit Organizations | 3 |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 | ACC 180 | Federal Taxation: Business | 3 |
| MKT 101 | Principles of Marketing (B) | 3 | 0 | 3 | ACC 185 | State and Local Taxation | 3 |
| Semester 5 | | | | | ACC 221 | Volunteer Income Tax Assistant | 3 |
| ACC 210 | Cost Accounting (T) | 3 | 0 | 3 | ACC 222 | Volunteer Income Tax Assistant 2 | 3 |
| ACC X9X | | 1 | 40 | 2 | ACC 230 | Professional Ethics for Accountants | 3 |
| Cooperative | | | | | ACC 240 | Bookkeeping Certification Review | 4 |
| Education | | | | | ACC 250 | Advanced Taxation | 3 |
| Elective 2: | | | | | | position Elective | |
| Accounting (T) | | | | | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| Semester 6 | | | | | ENG 103 | English Composition 2: Writing about Literature | 3 |
| ACC 202 | Intermediate Accounting 2 (T) | 3 | 0 | 3 | ENG 105 | English Composition 2: Business Communication | |
| ACC 270 | Auditing (T) | 4 | 0 | 4 | | ies or Natural/Physical Science Elective (select | O |
| ACC XXX | Additing (1) | 3 | 0 | 3 | one course) | les of Natural/1 Hysical Science Liective (Select | |
| Accounting Elective (T) | | 3 | U | 3 | , | Module course from ART, LIT, MUS, PHI, REL, THE, | |
| XXX XXX | | 3 | 0 | 3 | or any Transfe | r Module Course from BIO, CHE, EVS, PSC, PHY | |
| Arts/ | | | | | | Education Electives (4 credit hours required) | |
| Humanities | | | | | ACC 191 | Part-Time Cooperative Education 1: Accounting | 1 |
| or Natural/ | | | | | ACC 192 | Part-Time Cooperative Education 2: Accounting | 1 |
| Physical Science | | | | | ACC 193 | Part-Time Cooperative Education 3: Accounting | 1 |
| Elective (G) | | | | | ACC 194 | Part-Time Cooperative Education 4: Accounting | 1 |
| Total Credits | | 57 | 91 | 64 | ACC 291 | Full-Time Cooperative Education 1: Accounting | 2 |
| rotal Offulls | • | 51 | <i>J</i> 1 | U-T | ACC 292 | Full-Time Cooperative Education 2: Accounting | 2 |
| | | | | | | | |

* These 7-week courses are offered consecutively during the same semester.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Accounting Certificate (ACCTC) Accounting Certificate

| Semester 1 | | Lec | Lab C | redits |
|---------------|-------------------------------|-----|-------|--------|
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| ACC 175 | Federal Taxation: Individuals | 3 | 0 | 3 |
| Semester 2 | | | | |
| ACC 102 | Managerial Accounting | 2 | 2 | 3 |
| ACC 135 | Financial Statement Analysis | 2 | 0 | 2 |
| ACC 201 | Intermediate Accounting 1 | 4 | 0 | 4 |
| ACC 1XX | | 2 | 0 | 2 |
| Accounting | | | | |
| Software | | | | |
| Elective | | | | |
| Semester 3 | | | | |
| ACC 202 | Intermediate Accounting 2 | 3 | 0 | 3 |
| ACC 210 | Cost Accounting | 3 | 0 | 3 |
| ACC 270 | Auditing | 4 | 0 | 4 |
| ACC XXX | | 3 | 0 | 3 |
| Accounting | | | | |
| Elective | | | | |
| Total Credits | : | 28 | 4 | 30 |

Electives

Accounting Software Elective (two credit hours required)

| _ | · · · · · · · · · · · · · · · · · · · | |
|-----------------|--|---|
| ACC 115 | Accounting Software Applications: Sage (Peachtree) | 2 |
| or take the fol | lowing sequence: | |
| ACC 121 | Computerized Bookkeeping: QuickBooks 1 | 2 |
| & ACC 122 | and Computerized Bookkeeping: QuickBooks 2 | |
| Accounting Elec | ctive | |
| ACC 130 | Payroll Procedures | 3 |
| ACC 140 | Fund Accounting for Non-profit Organizations | 3 |
| ACC 180 | Federal Taxation: Business | 3 |
| ACC 221 | Volunteer Income Tax Assistant | 3 |
| ACC 222 | Volunteer Income Tax Assistant 2 | 3 |
| ACC 230 | Professional Ethics for Accountants | 3 |
| ACC 240 | Bookkeeping Certification Review | 4 |
| ACC 250 | Advanced Taxation | 3 |

^{*} These 7-week courses are offered consecutively during the same semester.

Accounting (ACC)

- Apply generally accepted accounting principles to the transactions of a business corporation.
- Prepare the basic financial statements of a corporate entity.
- Apply managerial accounting techniques in the areas of planning, controlling, decision making, and performance evaluation to costvolume-profit analysis, budgeting, product costing, and variance analysis.
- Utilize accounting computer software to prepare financial statements
- Analyze financial data from the annual report of a corporation to evaluate financial performance.
- Apply the Internal Revenue Service Tax Code in the preparation of income tax returns for individuals.
- Explain the auditing standards, objectives, and procedures applied to a financial statement audit.
- Demonstrate the use of analytical procedures applied to financial statements as part of an audit engagement.
- Demonstrate professional and ethical workplace behaviors during completion of the accounting program, including cooperative education.

Faculty

Program Chair

Professor Michele Geers, CPA michele.geers@cincinnatistate.edu

Co-op Coordinator

Professor Maya Franklin, MS maya.franklin@cincinnatistate.edu

Advisors

Professor Yvonne Baker, MAcc, CPA yvonne.baker@cincinnatistate.edu

Professor Stani Kantcheva MS, CPA, CMA stanislava.kantcheva@cincinnatistate.edu

Bookkeeping Certificate (BKC)

Bookkeeping Certificate (BKC)

The Bookkeeping Certificate at Cincinnati State is for individuals seeking employment as a bookkeeper in a small or medium-sized organization. Graduates of the certificate program are prepared to take the national certification exam offered by the American Institute of Professional Bookkeepers. The certificate program does not include cooperative education.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Bookkeeping Certificate

| First Year | | | | |
|---------------|------------------------------------|--------|----|----|
| Semester 1 | Lec | redits | | |
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| IM 111 | Computer Applications 1 | 2 | 3 | 3 |
| MAT 111 | Business Mathematics | 2 | 2 | 3 |
| Semester 2 | | | | |
| ACC 121 | Computerized Bookkeeping: | 0 | 4 | 2 |
| & ACC 122 | QuickBooks 1 | | | |
| | and Computerized Bookkeeping: | | | |
| | QuickBooks 2 | | | |
| ACC 130 | Payroll Procedures | 3 | 0 | 3 |
| ACC 180 | Federal Taxation: Business | 3 | 0 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft | 2 | 3 | 3 |
| | Excel | | | |
| Semester 3 | | | | |
| ACC 102 | Managerial Accounting | 2 | 2 | 3 |
| ACC 115 | Accounting Software Applications: | 1 | 2 | 2 |
| | Sage (Peachtree) | | | |
| ACC 185 | State and Local Taxation | 3 | 0 | 3 |
| ACC 240 | Bookkeeping Certification Review | 4 | 0 | 4 |
| Total Credits | : | 24 | 18 | 32 |

^{*} These 7-week courses are offered consecutively during the same semester.

Faculty

Program Chair

Professor Michele Geers, BBA, CPA michele.geers@cincinnatistate.edu

Tax Practitioner Certificate (TXPC)

Tax Practitioner Certificate (TXPC)

The Tax Practitioner Certificate prepares individuals for employment in tax preparation. Students learn to prepare federal, state, and local tax returns as well as forms required for trusts, estates, and nonprofit organizations. Students also gain experience by participating in the Volunteer Income Tax Assistant (VITA) program of the Internal Revenue Service and are prepared to pass the VITA Basic Level certification test. This certificate program does not include cooperative education.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Tax Practitioner Certificate (TXPC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|-------------------------------|-----|--------|-------|
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| ACC 175 | Federal Taxation: Individuals | 3 | 0 | 3 |

| LAW 101 | Business Law | 3 | 0 | 3 |
|----------------|------------------------------------|----|----|----|
| IM 111 | Computer Applications 1 | 2 | 3 | 3 |
| Semester 2 | | | | |
| ACC 180 | Federal Taxation: Business | 3 | 0 | 3 |
| ACC 185 | State and Local Taxation | 3 | 0 | 3 |
| ACC 221 | Volunteer Income Tax Assistant | 2 | 2 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft | 2 | 3 | 3 |
| | Excel | | | |
| Semester 3 | | | | |
| ACC 121 | Computerized Bookkeeping: | 0 | 4 | 2 |
| & ACC 122 | QuickBooks 1 | | | |
| | and Computerized Bookkeeping: | | | |
| | QuickBooks 2 | | | |
| ACC 222 | Volunteer Income Tax Assistant 2 | 1 | 4 | 3 |
| ACC 250 | Advanced Taxation | 3 | 0 | 3 |
| Total Credits: | | 24 | 18 | 32 |

These 7-week courses are offered consecutively during the same semester.

Faculty

Program Chair

Professor Michele Geers, CPA michele.geers@cincinnatistate.edu

Automotive Service Management Technologies (ASM & ASTCT)

Automotive Service Management (ASM)

The Automotive Service Management program includes co-op education at local automotive service companies as well as classroom instruction. These experiences help students develop the knowledge and technical skills that are essential for success in any avenue of the automotive work force.

Graduates of the program earn an Associate of Applied Business degree, and are prepared to take certification exams offered by the National Institute for Automotive Service Excellence (ASE).

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Automotive Service Technician Certificate (ASTCT)

The Automotive Service Technician Certificate at Cincinnati State prepares students for entry-level jobs in the technical areas of the automotive service field. Hands-on diagnosis and repair of "live" vehicles enhance students' diagnostic skills and build a solid foundation for a successful and rewarding career.

Graduates of the certificate program are prepared to take certification exams offered by the National Institute for Automotive Service Excellence (ASE).

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Automotive Service Management (ASM)

| Semester 1 | | Lec | Lab Cı | edits |
|--------------------------------------|--|-----|--------|-------|
| AUTO 100 | Introduction to Automotive Technology (B) | 2 | 3 | 3 |
| IM 111 | Computer Applications 1 (B) | 2 | 3 | 3 |
| AUTO 111 | Engine Repair (T) | 2 | 3 | 3 |
| AUTO 161 | Electrical/Electronic Systems 1 (T) | 2 | 3 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective (B) | | | | |
| Semester 2 | | | | |
| AUTO 150 | Brakes (T) | 2 | 3 | 3 |
| AUTO 162 | Electrical/Electronic Systems 2 (| 2 | 3 | 3 |
| | T) | | | |
| AUTO 181 | Engine Performance 1 (T) | 2 | 3 | 3 |
| ENG 10X English | | 3 | 0 | 3 |
| Composition | | | | |
| Elective (G) | | | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 |
| MAT 1XX | | 3 | 0 | 3 |
| Mathematics Elective (G) | | | | |
| Semester 3 | | | | |
| AUTO X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| Elective 1: Automotive | | | | |
| (T) | | | | |
| Semester 4 | | | | |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |
| AUTO 140 | Suspension and Steering (T) | 2 | 3 | 3 |
| AUTO 175 | Powertrain Systems and Service (T) | 2 | 3 | 3 |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |
| ACC 101 | Financial Accounting (B) | 3 | 0 | 3 |
| Semester 5 | | | | |
| AUTO X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education Elective 2: | | | | |
| Automotive | | | | |
| (T) | | | | |
| Semester 6 | | | | |
| AUTO 170 | Heating and Air Conditioning (T) | 2 | 3 | 3 |
| | | | | |

| AUTO 182 | Engine Performance 2 (T) | 2 | 3 | 3 | |
|---|--|------------|----------|-----|--|
| XXX XXX | g | 3 | 0 | 3 | |
| Arts/ | | | | | |
| Humanities | | | | | |
| Elective (G) | | | | | |
| XXX XXX | | 3 | 0 | 3 | |
| Social/ Behavioral | | | | | |
| Science | | | | | |
| Elective (G) | | | | | |
| Total Credits: | | 50 | 113 | 63 | |
| Elective | es . | | | | |
| First Year Ex | cperience Elective | | | | |
| FYE 100 | College Survival Skills | | | 1 | |
| FYE 105 | College Success Strategies | | | 2 | |
| FYE 110 | Community College Experience | | | 3 | |
| English Com | nposition Elective | | | | |
| ENG 102 | English Composition 2: Contem | porary Is | sues | 3 | |
| ENG 103 | English Composition 2: Writing a | about Lit | erature | 3 | |
| ENG 104 | English Composition 2: Technic | al | | 3 | |
| ENG 105 | Communication English Composition 2: Busines | s Comm | unicatio | n 3 | |
| Mathematics | , | 0 00111111 | arnoano | 0 | |
| MAT 105 | Quantitative Reasoning | | | 3 | |
| MAT 111 | Business Mathematics | | | 3 | |
| MAT 120 | Technical Mathematics | | | 3 | |
| Arts/Humani | ities Elective | | | | |
| Any Transfer or COMM 130 | Module course from ART, LIT, MUS | , PHI, RE | EL, THE | , | |
| | vioral Science Elective | | | | |
| | Module course from ECO, GEO, HS | T, LBR, | POL, | | |
| PSY, SOC | | | | | |
| Cooperative | Education Electives (4 credit hou | rs requi | ed) | | |
| AUTO 191 | Part-Time Cooperative Education | n 1: Aut | omotive | 1 | |
| AUTO 192 | Part-Time Cooperative Education | | | 1 | |
| AUTO 193 | Part-Time Cooperative Education | | | 1 | |
| AUTO 194 | Part-Time Cooperative Education | | | 1 | |
| AUTO 195 | Part-Time Cooperative Education | | | 1 | |
| AUTO 196 | Part-Time Cooperative Education | | | 1 | |
| AUTO 291 | Full-Time Cooperative Educatio | | | 2 | |
| AUTO 292 | Full-Time Cooperative Educatio | | | 2 | |
| AUTO 293 | Full-Time Cooperative Educatio | n 3: Auto | motive | 2 | |
| The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum. | | | | | |
| G = General B | Education course in this curriculum | | | | |
| B = Basic Ski | lls course in this curriculum | | | | |

T = Technical course in this curriculum

Automotive Service Technician Certificate (ASTC)

Automotive Service Technician Certificate

| Semester 1 | | Lec | Lab C | redits |
|-----------------|---------------------------------|-----|-------|--------|
| AUTO 100 | Introduction to Automotive | 2 | 3 | 3 |
| | Technology | | | |
| AUTO 111 | Engine Repair | 2 | 3 | 3 |
| AUTO 150 | Brakes | 2 | 3 | 3 |
| AUTO 161 | Electrical/Electronic Systems 1 | 2 | 3 | 3 |
| AUTO 181 | Engine Performance 1 | 2 | 3 | 3 |
| Semester 2 | | | | |
| AUTO 140 | Suspension and Steering | 2 | 3 | 3 |
| AUTO 162 | Electrical/Electronic Systems 2 | 2 | 3 | 3 |
| AUTO 170 | Heating and Air Conditioning | 2 | 3 | 3 |
| AUTO 175 | Powertrain Systems and Service | 2 | 3 | 3 |
| AUTO 182 | Engine Performance 2 | 2 | 3 | 3 |
| Total Credits | : | 20 | 30 | 30 |

Automotive Service Management (ASM)

- Diagnose mechanical malfunctions and electrical problems and make necessary repair.
- Effectively locate and utilize technical information required for vehicle repair.
- Function collaboratively as a member of a team to achieve specified and measurable results.
- Operate precision automotive diagnostic and repair equipment.
- Use tools and equipment found in an automotive repair shop.
- Follow established procedures for safety and accident prevention in the automotive service facility.
- Demonstrate comprehensive knowledge of employer expectations and ethical work practice.
- Diagnose a variety of automotive systems including electrical, brakes, engines, transmissions and steering, and suspension.
- Prepare students to be entry-level technicians in a variety of automotive careers.

Faculty

Program Chair

Charles Butler, BA, ASE-MCT charles.butler@cincinnatistate.edu

Co-op Coordinator

Brian Hooten, MAOL brian.hooten@cincinnatistate.edu

Advisor

Michael Mueller, ASE michael.mueller@cincinnatistate.edu

Business Management Technologies

The Business Management Technologies programs prepare students for entry-level positions in a wide range of business organizations and situations.

- Degree programs in Business Management, Marketing Management, and Paralegal include a range of courses that prepare students for professional work. Degree programs include cooperative education work experience, which provides insight on dealing with day-to-day responsibilities in business settings.
- Certificate programs in Entrepreneurship, Paralegal, and Real Estate are designed to lead to immediate employment opportunities in a shorter timeframe.
- The Business Pathways Certificate is designed for students who want to learn fundamental business concepts while also completing some of the required courses for an Associate of Applied Business degree.

For more information, please contact the Business Technologies Division at (513) 569-1620.

Business Management (BM)

Business Management (BM)

The Business Management degree program combines sound business training with on-the-job experience. Classroom experience includes understanding contemporary practices in management, marketing, human resources, accounting, and organizational development. Students also learn about effective use of time, money, materials, and people to improve business results.

Through cooperative education work experience, students gain valuable insight and "how to" experience in assessing and solving management challenges that businesses deal with every day.

Graduates earn an Associate of Applied Business degree.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Business Management (BM)

| Semester 1 | | Lec | Lab Cr | edits |
|--------------|-------------------------------|-----|--------|-------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (T) | | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IM 1XX | | 2 | 3 | 3 |
| Computer | | | | |
| Elective (B) | | | | |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |

| MATVVV | | 0 | 0 | 2 | Commuter Fle | 241 | |
|-------------------------------------|-----------------------------------|----|----|--------|------------------------|---|---|
| MAT XXX Mathematics | | 3 | 0 | 3 | Computer Ele | Computer Applications 1 | 3 |
| Elective (G) | | | | | IM 112 | | 3 |
| Semester 2 | | | | | IM 120 | Computer Applications 2 | 3 |
| ENG 10X | | 3 | 0 | 3 | IM 200 | Electronic Spreadsheets: Microsoft Excel | 3 |
| English | | | | | | Information Systems for Managers | 3 |
| Composition | | | | | Communication COMM 105 | | 2 |
| Elective (G) | | | | | COMM 105 | Interpersonal Communication | 3 |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 | | Public Speaking | 3 |
| MKT 101 | Principles of Marketing (B) | 3 | 0 | 3 | | Position Elective | 2 |
| MGT 105 | Human Resource Management (| 3 | 0 | 3 | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| | T) | | | | ENG 103 | English Composition 2: Writing about Literature | 3 |
| BUS 190 | Professional Practices (T) | 1 | 0 | 1 | ENG 105 | English Composition 2: Business Communication | 3 |
| Semester 3 | | | _ | | Mathematics I | | 2 |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 | MAT 105 | Quantitative Reasoning | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 | MAT 111 | Business Mathematics | 3 |
| MGT 220 | Leadership (T) | 3 | 0 | 3 | MAT 115 | Pre-Statistics | 3 |
| COMM 1XX | | 3 | 0 | 3 | MAT 131 | Statistics 1 | 3 |
| Communicati | ions | | | | MAT 132 | Statistics 2 | 3 |
| Elective (T) | | | | | MAT 151 | College Algebra | 4 |
| Semester 4 | | | | | MAT 215 | Business Calculus | 6 |
| XXX XXX Business | | 3 | 0 | 3 | MAT 251 | Calculus 1 | 5 |
| Elective 1 (T) | | | | | MAT 252 | Calculus 2 | 5 |
| MGT X9X | , | 1 | 40 | 2 | Business Elec | ctives (6 credit hours required) | |
| Cooperative | | ' | 40 | 2 | ACC 102 | Managerial Accounting | 3 |
| Education | | | | | FIN 100 | Personal Finance | 3 |
| Elective: | | | | | FIN 120 | Risk and Insurance | 3 |
| Management | t | | | | MGT 120 | Entrepreneurship | 3 |
| (T) | | | | | MGT 125 | Business Ethics | 3 |
| Semester 5 | | | | | MGT 130 | Project Management | 3 |
| XXX XXX | | 3 | 0 | 3 | MGT 140 | Quality Management | 3 |
| Arts/ | | | | | MKT 161 | Branding and Product Development | 1 |
| Humanities Elective (G) | | | | | MKT 162 | Sales Promotion | 1 |
| , , | Puningg Finance (T) | 2 | 0 | 3 | MKT 163 | Services and Non-Profit Marketing | 1 |
| FIN 150 | Business Finance (T) | 3 | 0 | ა ვ | MKT 164 | Social Media and Consumer Engagement | 1 |
| MKT 130 | Professional Selling (T) | Ü | Ŭ | 3 | MKT 205 | Marketing Research | 3 |
| XXX XXX Business | | 3 | 0 | 3 | MKT 215 | Advertising and Public Relations | 3 |
| Elective 2 (T) | | | | | MKT 231 | Direct and Database Marketing | 1 |
| Semester 6 | , | | | | MKT 232 | Integrated Marketing Communications | 1 |
| MGT 290 | Business Management Capstone | 2 | 2 | 3 | MKT 233 | Sales Management | 1 |
| WO 1 200 | (T) | _ | _ | O | Arts/Humaniti | • | |
| MGT X9X | | 1 | 40 | 2 | | Module course from ART, LIT, MUS, PHI, REL, THE, | |
| Cooperative | | | | | or COMM 130 | nodule codise nom AKT, EIT, WOS, FTII, KEL, TTIL, | |
| Education | | | | | | Education Elective (4 Credit Hours Required) | |
| Elective: | | | | | MGT 191 | Part-Time Cooperative Education 1: | 1 |
| Management | t | | | | WOT 191 | Management | • |
| (T) Total Credits | : | 55 | 87 | 60 | MGT 192 | Part-Time Cooperative Education 2: Management | 1 |
| Elective | es | | | | MGT 193 | Part-Time Cooperative Education 3: Management | 1 |
| | xperience Elective | | | | MGT 194 | Part-Time Cooperative Education 4: | 1 |
| FYE 100 | College Survival Skills | | | 1 | | Management | |
| FYE 105 | College Success Strategies | | | 2 | MGT 291 | Full-Time Cooperative Education 1: Management | 2 |
| FYE 110 | Community College Experience | | | 3 | | | |
| | | | | | | | |

MGT 292 Full-Time Cooperative Education 2: Management 2

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Business Management (BM)

- Demonstrate professional written and interpersonal communication skills that will enable students to collaboratively interact with customers, employers, and suppliers.
- Recognize the management functions of planning, leading, organizing, and controlling.
- Analyze an organization's strengths, weaknesses, opportunities, and threats from a marketing and organizational perspective.
- Understand human resources functions from employee, manager, and organizational perspectives.
- Understand the different skills needed and roles played by managers and leaders.
- Write effective goals that are specific, measurable, resultsoriented, and time-bound.
- Understand the differences in business cultures around the world and the need to adapt to them effectively.
- Recognize and adapt to the communication, leadership, and team building styles of others.

Faculty

Program Chair

Paula Kirch Smith, M.Ed., CHE paula.kirchsmith@cincinnatistate.edu

Co-op Coordinator

Adam Waits, AAB, BA adam.waits@cincinnatistate.edu

Advisors

Judy Marshall, BBA, MA, M.Ed. judy.marshall@cincinnatistate.edu

Paula Kirch Smith, M.Ed., CHE paula.kirchsmith@cincinnatistate.edu

Business Pathways Certificate (BUSC)

Business Pathways Certificate (BUSC)

The Business Pathways Certificate is designed for students who want to learn fundamental business concepts while also completing some of the required courses (general education requirements and basic business requirements) for an Associate of Applied Business degree.

Students admitted to one of the following Cincinnati State associate degree programs may wish to add the Business Pathways Certificate:

- Accounting
- Business Management
- Finance Technology
- Hospitality Management
- Marketing Management
- Supply Chain Management
- Pre-Business Administration

Students with degrees in non-business areas may use this certificate to prepare for entrance into a Master of Business Administration (MBA) program.

High school students who are earning college credits through College Credit Plus may also wish to pursue the Business Pathways Certificate.

To ensure that courses taken as part of the certificate will apply to degrees earned at Ohio public universities, students should select electives that are part of the Ohio Transfer Module or the Ohio Transfer Assurance Guide. Certificate advisors assist students in choosing elective courses.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Business Pathways Certificate (BUSC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------------------|--------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| MAT XXX | | 3 | 0 | 3 |
| Mathematics | | | | |
| Elective | | | | |
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| LAW 101 | Business Law | 3 | 0 | 3 |
| MGT 101 | Principles of Management | 3 | 0 | 3 |
| Semester 2 | | | | |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities Elective | | | | |
| or Natural/ | | | | |
| Physical | | | | |
| Sciences | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Social/ | | | | |
| Behavioral | | | | |
| Sciences | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Directed | | | | |
| Elective 1 | | | | |

| XXX XXX | 3 | 0 | 3 |
|----------------|----|---|----|
| Directed | | | |
| Elective 2 | | | |
| Total Credits: | 29 | 2 | 30 |

Electives

English Composition Elective

| ENG 102 | English Composition 2: Contemporary Issues | 3 |
|---------|---|---|
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| | | |

Mathematics Elective (select one course)

| College-level math: | | | | | |
|---------------------|---|---|--|--|--|
| MAT 105 | Quantitative Reasoning | 3 | | | |
| MAT 111 | Business Mathematics | 3 | | | |
| MAT 115 | Pre-Statistics | 3 | | | |
| or, Ohio Trai | nsfer Module math: | | | | |
| MAT 131 | Statistics 1 | 3 | | | |
| MAT 151 | College Algebra | 4 | | | |
| MAT 153 | Pre-Calculus | 6 | | | |
| MAT 215 | Business Calculus | 6 | | | |
| MAT 251 | Calculus 1 | 5 | | | |
| MAT 252 | Calculus 2 | 5 | | | |
| Directed Floor | ives (salast sources from two different subject | | | | |

Directed Electives (select courses from two different subject areas)

| , | | |
|---------|---|---|
| ACC 102 | Managerial Accounting * | 3 |
| MKT 101 | Principles of Marketing (Requires ECO 105 as a pre-requisite or co-requisite) * | 3 |
| FIN 100 | Personal Finance | 3 |
| FIN 150 | Business Finance | 3 |
| IM 111 | Computer Applications 1 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| IM 200 | Information Systems for Managers | 3 |

Arts/Humanities Elective

Any Ohio Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130

Natural/Physical Sciences Elective

Any Ohio Transfer Module course from BIO, CHE, EVS, PSC, PHY

Social/Behavioral Sciences Elective

Any Ohio Transfer Module course from ECO, GEO, HST, LBR, POL, PSY, SOC

Faculty

Program Advisors

Michele Geers, BBA, CPA michele.geers@cincinnatistate.edu

Entrepreneurship Certificate (ETRPC)

Entrepreneurship Certificate (ETRPC)

The Entrepreneurship certificate program provides knowledge in several areas of business to help the entrepreneur start a business or manage an existing business effectively.

Certificate coursework provides skills in accounting, management, and marketing that are necessary to start a successful business. Also, courses completed for the certificate apply toward the Associate of Applied Business degree in Business Management.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Entrepreneurship Certificate (ETRPC)

| Semester 1 | | Lec | Lab C | redits |
|----------------|------------------------------|-----|-------|--------|
| MGT 101 | Principles of Management | 3 | 0 | 3 |
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| MAT 111 | Business Mathematics | 2 | 2 | 3 |
| IM 111 | Computer Applications 1 | 2 | 3 | 3 |
| Semester 2 | | | | |
| MKT 130 | Professional Selling | 3 | 0 | 3 |
| MGT 120 | Entrepreneurship | 3 | 0 | 3 |
| ECO 105 | Principles of Microeconomics | 3 | 0 | 3 |
| Semester 3 | | | | |
| MKT 101 | Principles of Marketing | 3 | 0 | 3 |
| LAW 101 | Business Law | 3 | 0 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Technical | | | | |
| Elective | | | | |
| Total Credits: | | 27 | 7 | 30 |

Electives

Technical Elective

3

Consult with your Advisor to choose from one of these departments: ACC, AVP, CET, CUL, ECE, GRD, HFT, HRM, LH, MGT, MKT, PAS, RE

Faculty

Program Chair/Advisor

Paula Kirch Smith, M.Ed., CHE paula.kirchsmith@cincinnatistate.edu

Marketing Management (MMT)

Marketing Management (MMT)

For students with an interest in meeting people's unique needs, marketing is an exciting career choice. Marketing involves identifying

^{*} Ohio Transfer Assurance Guide (TAG) course

3

the products and services that solve people's problems and make them feel good, and then influencing people's buying behavior.

Students in the Marketing Management program gain understanding and experience in market research, market planning, new product and service development, customer behavior, branding, logistics, personal selling and sales management, direct marketing, retailing, advertising, promotion, public relations, pricing, distribution, and many other areas of marketing.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Marketing Management (MMT)

| Semester 1 | | Lec | Lab Cı | edits |
|----------------------------------|-----------------------------------|-----|--------|-------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (T) | | | | _ |
| MAT XXX Mathematics | | 3 | 0 | 3 |
| Elective (G) | | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IM 1XX | g (•) | 2 | 3 | 3 |
| Computer | | _ | Ü | Ü |
| Applications | | | | |
| Elective (B) | | | | |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |
| Semester 2 | | | | |
| COMM 1XX | | 3 | 0 | 3 |
| Communicati | ons | | | |
| Elective (T) | 5: (14: | | • | • |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 |
| ENG 10X English | | 3 | 0 | 3 |
| Composition | | | | |
| Elective (G) | | | | |
| MKT 101 | Principles of Marketing (B) | 3 | 0 | 3 |
| BUS 190 | Professional Practices (T) | 1 | 0 | 1 |
| Semester 3 | | | | |
| MKT 130 | Professional Selling (T) | 3 | 0 | 3 |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |
| MGT 130 | Project Management (T) | 3 | 0 | 3 |
| Semester 4 | | | | |
| XXX 1XX | | 3 | 0 | 3 |
| Business/ | | | | |
| Marketing | | | | |
| Elective (T) MKT X9X | | 1 | 40 | 2 |
| Cooperative | | ' | 40 | 2 |
| Education | | | | |
| Elective: | | | | |
| Marketing (T) | | | | |
| | | | | |

| Semester 5 | | | | |
|-------------------------------------|--|---------|----------|-----|
| MKT 205 | Marketing Research (T) | 3 | 0 | 3 |
| MKT 215 | Advertising and Public Relations (| 3 | 0 | 3 |
| | T) | | | |
| MKT 250 | Digital Marketing and Social Media (T) | 3 | 0 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities Elective (G) | | | | |
| Semester 6 | | | | |
| MGT 290 | Business Management Capstone | 2 | 2 | 3 |
| 11101 200 | (T) | _ | _ | Ŭ |
| MKT X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| Elective: | | | | |
| Marketing (T) | · | | 07 | |
| Total Credits | | 55 | 87 | 60 |
| Electives | S | | | |
| | xperience Elective | | | |
| FYE 100 | College Survival Skills | | | 1 |
| FYE 105 | College Success Strategies | | | 2 |
| FYE 110 | Community College Experience | | | 3 |
| | pplications Elective | | | |
| IM 111 | Computer Applications 1 | | | 3 |
| IM 112 | Computer Applications 2 | | | 3 |
| IM 120 | Electronic Spreadsheets: Microso | ft Exce | | 3 |
| IM 200 | Information Systems for Manager | S | | 3 |
| Communica | tions Elective | | | |
| COMM 105 | Interpersonal Communication | | | 3 |
| COMM 110 | Public Speaking | | | 3 |
| English Con | nposition Elective | | | |
| ENG 102 | English Composition 2: Contempo | | | 3 |
| ENG 103 | English Composition 2: Writing ab | | | 3 |
| ENG 105 | English Composition 2: Business | Comm | unicatio | n 3 |
| Mathematics | s Elective | | | |
| MAT 105 | Quantitative Reasoning | | | 3 |
| MAT 111 | Business Mathematics | | | 3 |
| MAT 115 | Pre-Statistics | | | 3 |
| MAT 131 | Statistics 1 | | | 3 |
| MAT 132 | Statistics 2 | | | 3 |
| MAT 151 | College Algebra | | | 4 |
| MAT 215 | Business Calculus | | | 6 |
| MAT 251 | Calculus 1 | | | 5 |
| MAT 252 | Calculus 2 | | | 5 |
| | arketing Elective (3 credit hours req | uired) | | _ |
| ACC 102 | Managerial Accounting | | | 3 |
| FIN 100 | Personal Finance | | | 3 |
| FIN 120 | Risk and Insurance | | | 3 |
| MGT 120 | Entrepreneurship | | | 3 |
| MGT 125 | Business Ethics | | | 3 |

MGT 220

Leadership

| MKT 161 | Branding and Product Development | 1 |
|---------|--------------------------------------|---|
| MKT 162 | Sales Promotion | 1 |
| MKT 163 | Services and Non-Profit Marketing | 1 |
| MKT 164 | Social Media and Consumer Engagement | 1 |
| MKT 231 | Direct and Database Marketing | 1 |
| MKT 232 | Integrated Marketing Communications | 1 |
| MKT 233 | Sales Management | 1 |
| A | Floative | |

Arts/Humanities Elective

Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, 3 or COMM 130

Cooperative Education Electives (4 credit hours required)

| MKT 191 | Part-Time Cooperative Education 1: Marketing | 1 |
|---------|--|---|
| MKT 192 | Part-Time Cooperative Education 2: Marketing | 1 |
| MKT 193 | Part-Time Cooperative Education 3: Marketing | 1 |
| MKT 194 | Part-Time Cooperative Education 4: Marketing | 1 |
| MKT 291 | Full-Time Cooperative Education 1: Marketing | 2 |
| MKT 292 | Full-Time Cooperative Education 2: Marketing | 2 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Marketing Management (MMT)

- Demonstrate a working knowledge and application of marketing terminology, concepts, activities, ethics, and strategies.
- Understand the functions of marketing within the organization and external environments and how marketing contributes to organizational attainment of goals and objectives.
- Apply quantitative and qualitative analytical skills through the application of marketing concepts, theories, and tools for setting strategies and solving marketing problems.
- Demonstrate skills in creative and critical thinking, written and oral communication, and ethical reasoning that will enable students to interact with employers, suppliers, and the customer's company.
- Recognize the management functions of planning, leading, organizing, and controlling.
- Interpret financial data and use it to make informed decisions about the operating performance and financial position of a firm.
- Analyze sales and customer service processes to facilitate consumer and business-to-business purchasing and customer retention
- Assess and develop individual communication, leadership, and team building skills while recognizing and adapting to the communication, leadership, and team building styles of others.

Faculty

Program Co-Chairs

Paula Kirch Smith, M.Ed., CHE paula.kirchsmith@cincinnatistate.edu

Co-op Coordinator

Adam Waits, AAB, BA adam.waits@cincinnatistate.edu

Advisors

Jeffrey Lovins, BS, MBA jeffrey.lovins@cincinnatistate.edu

Lesli Rice, MBA lesli.rice@cincinnatistate.edu

Paralegal (PAR & LAW)

Paralegal (PAR)

The Paralegal degree program prepares students to become Paralegals, also known as Legal Assistants. While earning an Associate of Applied Business degree, students gain knowledge and skills required to assist attorneys, judges, and other legal professionals in many legal practice settings.

Students learn to investigate facts, conduct research on legal issues, interview clients, organize and evaluate case materials, draft legal documents, and communicate effectively with legal professionals. Students also gain knowledge of substantive and procedural law, concentrating on the most prevalent areas of legal practice, as well as understanding of legal office procedures, time management, and organizational skills.

Cooperative education experience provides practical hands-on training to help students launch their paralegal career.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Paralegal Certificate (LAW)

The Paralegal Certificate program at Cincinnati State prepares students for careers in the legal profession in three key employment areas: employees of attorneys (the dominant category), self-employed individuals who work for attorneys, and self-employed individuals who provide their services directly to the public with attorney supervision.

Students learn substantive and procedural law, concentrating on the most prevalent areas of legal practice, as well as general civil and criminal litigation practice.

Students earning the Administrative Office Professional associate's degree with emphasis in the Legal Administrative Assistant track may wish to add the Paralegal Certificate to enhance their studies.

To be admitted to the certificate programs, students must have an associate's degree, a bachelor's degree, or Program Chair consent.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

| Paraleg | al (PAR.AAB) | | | | XXX XXX | 3 0 | 3 |
|-------------------------------------|--|-----|--------|--------|-----------------------------------|--|----|
| First Year | | | | | Legal | | |
| Semester 1 | | Lec | Lab Cı | rodite | Specialty Elective 3 (T) | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 | XXX XXX | 3 0 | 3 |
| IM 165 | | 3 | | 3 | Arts/ | 3 0 | 3 |
| | Legal Office Environment (B) | | 0 | | Humanities | | |
| LAW 101 | Business Law (B) | 3 | 0 | 3 | Elective (G) | | |
| FYE 1XX First Year | | 1 | 0 | 1 | Total Credits: | 54 97 | 63 |
| Experience Elective (B) | | | | | Electiv | es | |
| IM 11X | | 2 | 2 | 3 | First Veer Fre | aniana Flatina | |
| Computer | | | | | | College Sundivel Skills | 4 |
| Elective (B) | | 0 | 0 | 0 | FYE 100 | College Survival Skills | 1 |
| MAT 1XX Mathematics | | 3 | 0 | 3 | FYE 105 | College Success Strategies | 2 |
| Elective (G) | | | | | FYE 110 | Community College Experience | 3 |
| Semester 2 | | | | | Computer Ele | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 | IM 111 | Computer Applications 1 | 3 |
| ENG 105 | , , | 3 | 0 | | IM 112 | Computer Applications 2 | 3 |
| ENG 105 | English Composition 2: Business Communication (G) | 3 | U | 3 | Mathematics | Elective | |
| IM 130 | Electronic Word Processing: | 2 | 3 | 3 | MAT 111 | Business Mathematics | 3 |
| 1101 130 | Microsoft Word (T) | 2 | 3 | 3 | MAT 115 | Pre-Statistics | 3 |
| LAW 130 | Estate Planning, Family and | 3 | 0 | 3 | MAT 131 | Statistics 1 | 3 |
| LAW 150 | Probate Law (T) | 3 | O | 3 | MAT 151 | College Algebra | 4 |
| XXX XXX | riodate Law (1) | 3 | 0 | 3 | Management/ | Marketing Elective | |
| Legal | | O | O | O | MGT 101 | Principles of Management | 3 |
| Specialty | | | | | MGT 105 | Human Resource Management | 3 |
| Elective 1 (T |) | | | | MGT 120 | Entrepreneurship | 3 |
| Semester 3 | | | | | MGT 130 | Project Management | 3 |
| LAW 291 | Full-Time Cooperative Education | 1 | 40 | 2 | MKT 101 | Principles of Marketing * | 3 |
| | 1: Legal Assistant (T) | | | | MKT 110 | Sales and Customer Relations | 3 |
| XXX XXX | | 3 | 0 | 3 | | ty Electives (9 credit hours required) | |
| Management Marketing | d/ | | | | ACC 115 | Accounting Software Applications: Sage | 1 |
| Elective (B) | | | | | | (Peachtree) | |
| Semester 4 | | | | | ACC 121 | Computerized Bookkeeping: QuickBooks 1 | 1 |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 | ACC 122 | Computerized Bookkeeping: QuickBooks 2 | 1 |
| IM 225 | Legal Transcription and | 2 | 3 | 3 | CRJ 105 | Introduction to Criminal Justice | 3 |
| | Formatting (T) | | | | CRJ 135 | Criminal Law | 3 |
| LAW 120 XXX XXX | Legal Research and Writing (T) | 2 | 2 | 3 | HIM 105 | Legal Aspects of Health Information Management | 2 |
| Social | | Ü | Ü | Ü | IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| Science | | | | | IM 135 | Business Document Formatting | 3 |
| Elective (G) | | | | | IM 150 | Electronic Presentations: Microsoft PowerPoint | 3 |
| XXX XXX | | 3 | 0 | 3 | IM 155 | Emerging Technologies and Social Media | 3 |
| Legal | | | | | ITP 130 | Legal Issues of Deafness | 1 |
| Specialty | | | | | LAW 110 | Employment Law | 3 |
| Elective 2 (T |) | | | | LAW 140 | Copyright and Trademark Law in Entertainment | |
| Semester 5 LAW 292 | Full-Time Cooperative Education | 1 | 40 | 2 | | Industries | |
| Semester 6 | 2: Legal Assistant (T) | | | | LAW 150 | Bankruptcy, Debt Collection and Secured Transactions | 3 |
| LAW 210 | Litigation (T) | 2 | 2 | 3 | LAW 160 | Administrative Law Practices and Procedures | 2 |
| LAW 210 | Paralegal Capstone (T) | 2 | 3 | 3 | LBR 105 | Introduction to Labor and Employee Relations | 3 |
| LAW 230 | Taratogai Oapstone (1) | ۷ | 3 | 5 | NDR 100 | Introduction to Negotiation and Dispute Resolution | 3 |

| RE 105 | Real Estate Law | 3 | |
|---|---|---|--|
| Arts/Humanities | s Elective | | |
| Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130 | | | |
| Social Science | Elective | | |
| Any Transfer Mo SOC | dule course from GEO, HST, LBR, POL, PSY, | 3 | |

Has a corequisite of ECO 105

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Paralegal Certificate (LAW)

| Semester 1 | | Lec | Lab C | redits |
|------------------------------------|---|-----|-------|--------|
| LAW 101 | Business Law | 3 | 0 | 3 |
| IM 130 | Electronic Word Processing: Microsoft Word | 2 | 3 | 3 |
| IM 165 | Legal Office Environment | 3 | 0 | 3 |
| XXX XXX Technical Elective 1 | | 3 | 0 | 3 |
| XXX XXX Technical Elective 2 | | 3 | 0 | 3 |
| Semester 2 | | | | |
| LAW 120 | Legal Research and Writing | 3 | 0 | 3 |
| LAW 130 | Estate Planning, Family and Probate Law | 3 | 0 | 3 |
| LAW 210 | Litigation | 3 | 0 | 3 |
| IM 225 | Legal Transcription and Formatting | 2 | 3 | 3 |
| LAW 290 | Paralegal Capstone | 3 | 0 | 3 |
| Total Credits | : | 28 | 6 | 30 |

Electives

Technical Electives (six credit hours required)

| ACC 115 | Accounting Software Applications: Sage (Peachtree) | 2 |
|---------|--|---|
| ACC 121 | Computerized Bookkeeping: QuickBooks 1 | 2 |
| ACC 122 | Computerized Bookkeeping: QuickBooks 2 | 2 |
| ACC 175 | Federal Taxation: Individuals | 3 |
| ACC 180 | Federal Taxation: Business | 3 |
| CRJ 105 | Introduction to Criminal Justice | 3 |
| CRJ 110 | Introduction to Policing | 3 |
| CRJ 115 | Introduction to Corrections | 3 |
| CRJ 120 | Introduction to Courts | 3 |
| CRJ 125 | Criminology | 3 |

| CRJ 130 | Criminal Investigation Skills | 3 |
|---------|---|---|
| CRJ 135 | Criminal Law | 3 |
| HIM 105 | Legal Aspects of Health Information Management | 2 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| IM 135 | Business Document Formatting | 3 |
| IM 140 | Electronic Database Management: Microsoft Access | 3 |
| IM 145 | Document Proofreading and Editing | 3 |
| IM 150 | Electronic Presentations: Microsoft PowerPoint | 3 |
| IM 155 | Emerging Technologies and Social Media | 3 |
| ITP 130 | Legal Issues of Deafness | 1 |
| LAW 110 | Employment Law | 3 |
| LAW 140 | Copyright and Trademark Law in Entertainment Industries | 3 |
| LAW 150 | Bankruptcy, Debt Collection and Secured Transactions | 3 |
| LBR 105 | Introduction to Labor and Employee Relations | 3 |
| RE 105 | Real Estate Law | 3 |

Paralegal (PAR)

- · Define legal terminology in numerous areas of the law.
- Identify major legal systems and functions of the law in American society.
- Discuss ethical rules and considerations applicable to the legal profession and non-attorney professionals.
- Draft a variety of documents, including case briefs, pleadings, discovery requests, office memoranda, correspondence, and legal forms.
- Analyze applicable case and statutory law for a variety of lawrelated topics and client scenarios.
- Apply legal research skills to support case law and statutory analysis, legal document preparation, and fact gathering in a variety of law-related situations.
- Demonstrate an understanding of the principles of e-filing, and how to locate local court rules and the civil rules of procedure.
- Demonstrate oral communication skills in a variety of educational and professional settings.
- Utilize law and office related technology resources in a variety of law office procedures, including file management, timekeeping, document management, document creation, eDiscovery, and social media.

Faculty

Program Chair/Advisor

Laura Drake, JD laura.drake@cincinnatistate.edu

Real Estate Certificate (REC)

Real Estate Certificate (REC)

The Real Estate certificate provides the knowledge and skills necessary to enter into the real estate field as a salesperson. The curriculum is approved by the State of Ohio Department of Commerce, Division of Real Estate, and prepares students for the state licensure

exam. Other courses provide basic skills in accounting, business, salesmanship, and mathematics.

Courses completed for the certificate apply toward the Associate of Applied Business degree in Business Management or other business fields.

Real Estate courses are offered only in the evening.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Real Estate Certificate (REC)

| Semester 1 | | Lec | Lab C | redits |
|-----------------------|--------------------------------------|-----|-------|--------|
| RE 100 | Real Estate Principles and Practices | 3 | 0 | 3 |
| RE 105 | Real Estate Law | 3 | 0 | 3 |
| RE 110 | Real Estate Appraisal and Finance | 3 | 0 | 3 |
| Semester 2 | | | | |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| MAT 111 | Business Mathematics | 2 | 2 | 3 |
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| Semester 3 | | | | |
| MKT 130 | Professional Selling | 3 | 0 | 3 |
| XXX XXX | | | | 3 |
| Technical Elective | | | | |
| XXX-XXX | | 3 | 0 | 3 |
| Social | | | | |
| Science | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ Humanities | | | | |
| Elective | | | | |
| Total Credits | : | 25 | 4 | 30 |

Electives

Technical Elective

| ACC 121 | Computerized Bookkeeping: QuickBooks 1 | 1 |
|------------------|--|---|
| ACC 122 | Computerized Bookkeeping: QuickBooks 2 | 1 |
| FIN 150 | Business Finance | 3 |
| LAW 101 | Business Law | 3 |
| MGT 105 | Human Resource Management | 3 |
| MGT 120 | Entrepreneurship | 3 |
| MKT 101 | Principles of Marketing | 3 |
| MKT 250 | Digital Marketing and Social Media | 3 |
| Social Science I | Elective | |
| ECO 105 | Principles of Microeconomics | 3 |
| ECO 110 | Principles of Macroeconomics | 3 |
| CULT 110 | Social Issues in Technology | 3 |

| PSY 110 | Introduction to Psychology | 3 |
|---------|----------------------------|---|
| SOC 105 | Introduction to Sociology | 3 |
| | | |

Arts/Humanities Elective

Any Transfer Module course from ART, MUS, THE; or any course from COMM, CULT, LIT, PHI, REL; or ART 120, or MUS 120

Faculty

Program Chair/Advisor

Yvonne Baker, MAcc, CPA (Inactive) yvonne.baker@cincinnatistate.edu

Financial Services Technologies (FIN & FPC)

Finance Technology (FIN)

The Finance Technology program offers two tracks that lead to finance-related careers in banking, insurance, investments, or corporate finance, or in non-profit organizations.

The General Finance track prepares students to work with individuals, businesses, or non-profit agencies involved in raising, spending, and investing money. Core courses provide the skills required for many career paths in finance.

The Financial Planning track focuses on personal financial management including budgeting, insurance, investments, taxes, retirement and education funding, and estate planning. The Financial Planning track can be taken as a fully online degree program.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Financial Planning Certificate (FPC)

The Financial Planning Certificate prepares graduates to develop comprehensive financial plans for clients by applying knowledge and skills in a variety of personal financial planning areas, including taxes, investments, insurance, education, retirement and estate planning.

All certificate courses are offered through online education.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Finance Technology (FIN)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|----------------------------|-----|--------|-------|
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FIN 100 | Personal Finance (T) | 3 | 0 | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |

| FYE 1XX | | 1 | 0 | 1 | XXX XXX | 3 0 | 3 |
|--------------------------------|---|---|----|---|-------------------------------|--|----|
| First Year | | | | | Arts/ | | |
| Experience | | | | | Humanities | | |
| Elective (B) | | | | | Elective | | |
| MAT XXX | | 3 | 0 | 3 | or Natural/ | | |
| Mathematics | | | | | Physical Science | | |
| Elective (G) | | | | | Elective (G) | | |
| Semester 2 | | | _ | _ | XXX XXX | 3 0 | 3 |
| ACC 102 | Managerial Accounting (T) | 2 | 2 | 3 | Finance | 3 0 | 3 |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 | Track | | |
| FIN 120 | Risk and Insurance (T) | 3 | 0 | 3 | Elective 4 (T) | | |
| IM 120 | Electronic Spreadsheets: Microsoft Excel (B) | 2 | 3 | 3 | Total Credits: | 58 87 | 63 |
| ENG 10X English | | 3 | 0 | 3 | Electives | | |
| Composition | | | | | First Year Exp | erience Elective | |
| Elective (G) | | | | | FYE 100 | College Survival Skills | 1 |
| xxx xxx | | 3 | 0 | 3 | FYE 105 | College Success Strategies | 2 |
| Finance | | | | | FYE 110 | Community College Experience | 3 |
| Track | | | | | Mathematics E | | |
| Elective 1 (T |) | | | | MAT 105 | Quantitative Reasoning | 3 |
| Semester 3 | | | | | MAT 111 | Business Mathematics | 3 |
| FIN X9X | | 1 | 40 | 2 | MAT 115 | Pre-Statistics | 3 |
| Cooperative | | | | | MAT 113 | Technical Mathematics | 3 |
| Education | | | | | | | |
| Elective 1: | | | | | MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
| Finance (T) | | | | | MAT 125 | Algebra and Trigonometry | 4 |
| Semester 4 | 5 | | _ | | MAT 126 | Functions and Calculus | 4 |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 | MAT 131 | Statistics 1 | 3 |
| FIN 150 | Business Finance (T) | 3 | 0 | 3 | MAT 132 | Statistics 2 | 3 |
| XXX XXX | | 3 | 0 | 3 | MAT 151 | College Algebra | 4 |
| Finance | | | | | MAT 215 | Business Calculus | 6 |
| Track Elective 2 (T | 1 | | | | MAT 251 | Calculus 1 | 5 |
| XXX XXX |) | 3 | 0 | 3 | MAT 252 | Calculus 2 | 5 |
| Finance | | 3 | U | 5 | English Comp | osition Elective | |
| Track | | | | | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| Elective 3 (T |) | | | | ENG 103 | English Composition 2: Writing about Literature | 3 |
| Semester 5 | | | | | ENG 104 | English Composition 2: Technical | 3 |
| FIN 200 | Investments (T) | 3 | 0 | 3 | | Communication | |
| FIN X9X | | 1 | 40 | 2 | ENG 105 | English Composition 2: Business Communication | 3 |
| Cooperative | | | | | Communication | on Elective | |
| Education | | | | | COMM 105 | Interpersonal Communication | 3 |
| Elective 2: | | | | | COMM 110 | Public Speaking | 3 |
| Finance (T) | | | | | Marketing Elec | ctive | |
| Semester 6 | | | | | MKT 101 | Principles of Marketing | 3 |
| COMM 1XX | | 3 | 0 | 3 | MKT 110 | Sales and Customer Relations | 3 |
| Communicat | ion | | | | MKT 130 | Professional Selling | 3 |
| Elective (B) | | _ | _ | _ | | es Elective or Natural/Physical Science Elective | Ü |
| MKT XXX Marketing | | 3 | 0 | 3 | (select one co | | |
| Elective (B) | | | | | Any Transfer M or COMM 130 | lodule course from ART, LIT, MUS, PHI, REL, THE, | 3 |
| | | | | | | r Module course from BIO, CHE, EVS, PHY, PSC | 3 |
| | | | | | Cooperative E | ducation Electives (4 credit hours required) | |
| | | | | | FIN 191 | Part-Time Cooperative Education 1: Finance | 1 |
| | | | | | FIN 192 | Part-Time Cooperative Education 2: Finance | 1 |
| | | | | | | | |

| FIN 193 | Part-Time Cooperative Education 3: Finance | 1 |
|---------|--|---|
| FIN 194 | Part-Time Cooperative Education 4: Finance | 1 |
| FIN 291 | Full-Time Cooperative Education 1: Finance | 2 |
| FIN 292 | Full-Time Cooperative Education 2: Finance | 2 |

Track Electives (Meet with an advisor to choose a track and corresponding electives)

General Finance Track Electives

Must take the following course:

| ECO 110 | Principles of Macroeconomics (T) | 3 |
|------------------|--|---|
| Select 3 additi | onal track elective courses: | |
| ACC 115 | Accounting Software Applications: Sage (Peachtree) | 2 |
| ACC 140 | Fund Accounting for Non-profit Organizations | 3 |
| ACC 180 | Federal Taxation: Business | 3 |
| MGT 101 | Principles of Management | 3 |
| MGT 105 | Human Resource Management | 3 |
| MGT 130 | Project Management | 3 |
| MGT 290 | Business Management Capstone | 3 |
| RE 100 | Real Estate Principles and Practices | 3 |
| RE 105 | Real Estate Law | 3 |
| RE 110 | Real Estate Appraisal and Finance | 3 |
| Einangial Blanni | ng Trook Floatives | |

Financial Planning Track Electives

Take 4 required track courses:

| | • | |
|---------|--|---|
| ACC 175 | Federal Taxation: Individuals | 3 |
| LAW 130 | Estate Planning, Family and Probate Law | 3 |
| FIN 175 | Retirement and Employee Benefit Planning | 3 |
| FIN 290 | Financial Planning Capstone | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Financial Planning Certificate (FPC)

| Semester 1 | | Lec | Lab C | redits |
|----------------|--|-----|-------|--------|
| FIN 100 | Personal Finance | 3 | 0 | 3 |
| ACC 175 | Federal Taxation: Individuals | 3 | 0 | 3 |
| FIN 120 | Risk and Insurance | 3 | 0 | 3 |
| LAW 101 | Business Law | 3 | 0 | 3 |
| Semester 2 | | | | |
| FIN 175 | Retirement and Employee Benefit Planning | 3 | 0 | 3 |
| LAW 130 | Estate Planning, Family and Probate Law | 3 | 0 | 3 |
| FIN 200 | Investments | 3 | 0 | 3 |
| Semester 3 | | | | |
| FIN 290 | Financial Planning Capstone | 3 | 0 | 3 |
| Total Credits: | | 24 | 0 | 24 |

Finance Technology (FIN)

- Prepare a comprehensive personal financial plan for an individual.
- Apply time value of money concepts to decision-making in both personal and corporate financial planning.
- Demonstrate knowledge of corporate financial decision-making to include financial statement analysis, cash management, capital investment, securities valuation, and international finance decisions.
- Develop an appropriate portfolio of securities for an individual considering risk tolerance and time horizon.
- Create a risk assessment for an individual or small business using principles of risk and insurance.
- Describe the framework of the US and global financial system and the role of individual financial institutions in this framework.
- · Demonstrate employability skills in a financial environment.

Faculty

Program Chair

Margaret Clark, MBA, CFP margaret.clark@cincinnatistate.edu

Co-op Coordinator

Maya Franklin, MS maya.franklin@cincinnatistate.edu

Hospitality Technologies

Hospitality Technologies provides students with the knowledge and skills required for a range of positions in food service, lodging, and health care.

The department includes the Midwest Culinary Institute (MCI) at Cincinnati State, a nationally-recognized center for culinary education.

Associate's degrees and certificates lead to entry-level work opportunities and support continued education for the baccalaureate degree. In addition, the MCI offers an array of professional development opportunities and non-credit community classes.

The MCl's state-of-the-art facilities, located in the Advanced Technology & Learning Center on Cincinnati State's Clifton Campus, feature eight distinctive kitchens, a decorating lab, butcher shop and fish shop, demonstration studio, restaurant, and restaurant kitchen. The instructional kitchens include individual work stations for each student. An advanced multimedia system is built into the facility and supports the integration of computer technology into the curriculum.

Degree programs are available for:

- Brewing Science
- · Culinary Arts
- · Dietetic Technology
- Hospitality Management
- Pastry Arts
- Pre-Nutrition Science

These programs include cooperative education work experience or other forms of experiential education or service learning.

Hospitality Technologies also offer three certificates:

- · Brewing Sales and Marketing
- · Culinary Arts
- · Dietary Management

All certificate programs include professional management courses certified by the National Restaurant Association.

For more information, please contact the Business Technologies Division at (513) 569-1620.

Brewing Science (BREW & BREWC)

Brewing Science (BREW)

The craft beer and beverage industry is one of the fastest growing in the United States and many other parts of the world. The Brewing Science degree program provides knowledge and skills related to introductory and advanced production processes, finishing and packaging techniques, product analysis, and operation of brewing facilities. Cooperative education experiences add to the student's career-readiness.

Graduates of the Brewing Science program earn an Associate of Applied Science degree, and are qualified for employment opportunities in many areas of the craft beverage industry including brewer/assistant brewer, cellar manager, or brewery manager.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Brewing Sales and Marketing Certificate (BREWC)

The Brewing Sales and Marketing Certificate prepares its graduates for employment opportunities in many areas of the craft beverage industry including brewery representative, craft beer sales and distribution, or tasting room management.

Students develop skills and gain knowledge of topics such as sensory evaluation of beverages, taproom management, and key components of beer tourism.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Brewing Science (BREW)

Student applicants must be at least 21 years of age before entering the program. Applicants must be able to work in a physically demanding environment including, but not limited to, standing in a hot and wet work area for extended lengths of time, climbing stairs, repeatedly

lifting equipment and products weighing up to 55 lbs., and safely maneuvering by hand equipment that weighs up to 170 lbs.

| ag | z, nana eqaipment mat neighe ap te | | | |
|---|--|-----|--------|----|
| First Year | | | l ab O | |
| Semester 1 | | Lec | Lab C | |
| BREW 110 | Brewing Sanitation and Safety (B) | 2 | 0 | 2 |
| BREW 120 | Brewing Technology and Calculations (T) | 1 | 3 | 2 |
| CHE 110 | Fundamentals of Chemistry (G) | 3 | 3 | 4 |
| HRM 110 | Food and Beverage Cost Control (B) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| MAT 1XX Mathematics Elective (G) Semester 2 | | 2 | 2 | 3 |
| BREW 130 | Brewing Production (T) | 2 | 4 | 4 |
| BREW 140 | , , | 1 | | |
| | Brewing Ingredients (T) | - | 3 | 2 |
| BREW 150 | Applied Brewing Microbiology (T) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| BUS 190 | Professional Practices | 1 | 0 | 1 |
| Semester 3 BREW X9X Cooperative Education Elective: Brewing Science (T) | | 1 | 40 | 2 |
| Second Year | r | | | |
| Semester 4 | | | | |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| BREW 160 | Sensory Evaluation of Beer (T) | 3 | 0 | 3 |
| BREW 210 | Beverage Marketing and Sales (T) | 3 | 0 | 3 |
| BREW 220 | Brewing Packaging, Materials, and Quality Control (T) | 2 | 3 | 3 |
| ENG 10X English Composition Elective (G) Semester 5 | | 3 | 0 | 3 |
| BREW 240 | Legal Issues in Brewing and Beverages (T) | 3 | 0 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 |
| BREW 230 | Advanced Brewing Production (T) | 3 | 3 | 4 |
| Arts/ Humanities Elective (B) | Ç , , , | 3 | 0 | 3 |
| Total Credits: | | 51 | 65 | 62 |
| | | | | |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 | | | | |
|----------------------|--|---|--|--|--|--|
| FYE 105 | College Success Strategies | 2 | | | | |
| FYE 110 | Community College Experience | 3 | | | | |
| Mathematics Ele | ective | | | | | |
| MAT 105 | Quantitative Reasoning | 3 | | | | |
| MAT 120 | Technical Mathematics | 3 | | | | |
| MAT 121 | Technical Algebra and Geometry with Statistics | 3 | | | | |
| MAT 125 | Algebra and Trigonometry | 4 | | | | |
| English Compo | sition Elective | | | | | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 | | | | |
| ENG 104 | English Composition 2: Technical Communication | 3 | | | | |
| ENG 105 | English Composition 2: Business Communication (Arts/Humanities Elective) | 3 | | | | |
| Arts/Humanities | s Elective | | | | | |
| Any ART, LIT, M | US, PHI, REL, THE | 3 | | | | |
| Cooperative Ed | ucation Elective (2 credits required) | | | | | |
| BREW 191 Part- | Time Cooperative Education 1: Brewing Science | 1 | | | | |
| BREW 192 Part- | BREW 192 Part-Time Cooperative Education 2: Brewing Science 1 | | | | | |
| BREW 291 Full- | BREW 291 Full-Time Cooperative Education 1: Brewing Science 2 | | | | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

- G = General Education course in this curriculum
- B = Basic Skills course in this curriculum
- T = Technical course in this curriculum

Brewing Sales and Marketing (BREWC)

Program prerequisite: Applicants must be at least 21 years old before entering the certificate program.

First Year

Total Credits:

| | Lec | Lab Cr | edits |
|---|---|--|--|
| Introduction to Craft Beer | 3 | 0 | 3 |
| Sensory Evaluation of Beer | 2 | 3 | 3 |
| Food and Beverage Cost Control | 3 | 0 | 3 |
| Professional Selling | 3 | 0 | 3 |
| | | | |
| Marketing and Customer Relations | 3 | 0 | 3 |
| Beverage Marketing and Sales | 3 | 0 | 3 |
| Legal Issues in Brewing and Beverages | 3 | 0 | 3 |
| Beverage Tour and Tasting Management | 2 | 2 | 3 |
| | Sensory Evaluation of Beer Food and Beverage Cost Control Professional Selling Marketing and Customer Relations Beverage Marketing and Sales Legal Issues in Brewing and Beverages Beverage Tour and Tasting | Introduction to Craft Beer 3 Sensory Evaluation of Beer 2 Food and Beverage Cost Control 3 Professional Selling 3 Marketing and Customer Relations 3 Beverage Marketing and Sales 3 Legal Issues in Brewing and 3 Beverages Beverage Tour and Tasting 2 | Introduction to Craft Beer 3 0 Sensory Evaluation of Beer 2 3 Food and Beverage Cost Control 3 0 Professional Selling 3 0 Marketing and Customer Relations 3 0 Beverage Marketing and Sales 3 0 Legal Issues in Brewing and 3 0 Beverages Beverage Tour and Tasting 2 2 |

Brewing Science (BREW)

 Explain the compositional features of the four essential brewing raw materials (malt, hops, water, and yeast) and articulate the technological and manufacturing processes required to transform the four essential raw materials into forms suitable for brewing.

- Summarize the basics of brewery cleaning and sanitation as well as identify the key microbial chemical and physical threats to brewing and beer quality.
- Demonstrate the ability to design and brew beers that meet generally accepted standards and that reflect characteristics of primary beer styles.
- Explain the quality attributes of beer, such as foam, stability, color, aroma, and attenuation, and interpret the reasons why a product deviates from expected performance.
- Identify and describe the key contributors to beer flavor, including defects, the pathways by which they arise, and how these flavors can be controlled.
- Differentiate between the principles of QA and QC and outline the essential components of a quality system within a brewery.
- Explain the relevance of key analytical parameters applied to malt, hops, water, and yeast and show competency in interpreting key analytical parameters for malt, adjuncts, water, hops, yeast, wort, and beer.
- Perform analytical measurements using industry-recognized standard methods and instrumentation on raw materials, inprocess streams, finished products, and packaged beer for the purpose of assessing their quality as well as demonstrate knowledge of in-line instrumentation and critical process measurement points (CPMP).
- Demonstrate knowledge of the regulatory environment with regard to overseeing breweries (e.g., food safety, brew house safety, environmental compliance, labeling, etc.) and demonstrate knowledge of social and regulatory environments regarding reasonable standards for responsible consumption.
- Demonstrate knowledge of sustainability practices for raw materials, water, energy, and processing and brewery waste.

Faculty

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Program Chair

Professor Carla Gesell-Streeter, MA, Cicerone Certified Beer Server, Master Brewers Assn of the Americas Associate Beer Steward carla.gesell-streete@cincinnatistate.edu

Co-op Coordinator

Scott Holubetz, AAB, AOS, BA scott.holubetz@cincinnatistate.edu

Culinary Arts (CUL & CAC)

Culinary Arts (CUL)

In the Culinary Arts program at Cincinnati State, students receive training in all aspects of food preparation, including methods of cookery, sauces, soups, butchery, garde manger, pastry, and confectioneries, in addition to culinary management.

Graduates earn an Associate of Applied Business degree.

The Culinary Arts degree program is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC). Website: http://www.acfchefs.org

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Culinary Arts Certificate (CAC)

The Culinary Arts Certificate is designed for the serious hobbyist rather than the industry professional-in-training. This program covers food service sanitation and basic cooking courses.

Credits earned may be transferred into the Culinary Arts degree program. Students in the certificate program are not eligible for financial aid or Kentucky reciprocity.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Culinary Arts (CUL)

| Semester 1 | | Lec | Lab Cı | edits |
|-----------------------------------|----------------------------------|-----|--------|-------|
| CUL 100 | Culinary Demonstration (T) | 2 | 0 | 2 |
| CUL 101 | Culinary 1 (T) | 0 | 6 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| HRM 105 | Food Service Sanitation (B) | 1 | 0 | 1 |
| IM 111 | Computer Applications 1 (B) | 2 | 3 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 |
| CUL 102 | Culinary 2 (T) | 0 | 6 | 3 |
| CUL 105 | Culinary Baking (T) | 0 | 6 | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition Elective (G) | | | | |
| MAT 1XX | | 3 | 0 | 3 |
| Mathematics | | Ü | Ü | Ü |
| Elective (G) | | | | |
| Semester 3 | | | | |
| CUL X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| Elective 1: | | | | |
| Culinary Arts (T) | | | | |
| Semester 4 | | | | |
| CUL 110 | Culinary Nutrition (T) | 0 | 6 | 3 |
| CUL 200 | Garde Manger (T) | 0 | 8 | 4 |
| CUL 205 | Culinary Production (T) | 0 | 6 | 3 |
| HRM 110 | Food and Beverage Cost Control | 3 | 0 | 3 |
| I II XIVI I I I U | (B) | 3 | U | J |
| | (= / | | | |

| XXX XXX | | 3 | 0 | 3 |
|-----------------------|-----------------------------------|----|-----|----|
| Arts/ Humanities | | | | |
| Elective (G) | | | | |
| Semester 5 | | | | |
| CUL X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| Elective 2: | | | | |
| Culinary Arts | | | | |
| (T) | | | | |
| Semester 6 | | | | |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| CUL 210 | International Cuisine (T) | 0 | 6 | 3 |
| CUL 290 | Culinary Capstone (T) | 0 | 6 | 3 |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 |
| MGT 105 | Human Resource Management (| 3 | 0 | 3 |
| | B) | | | |
| Total Credits: | : | 35 | 135 | 64 |

Electives

| First Year Experience Elective | | | | |
|--------------------------------|----------------------------|--|--|--|
| FYE 100 | College Survival Skills | | | |
| FYE 105 | College Success Strategies | | | |

| FYE 110 Community College Experience | | | | |
|---|---|---|--|--|
| English Composition Elective | | | | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 | | |
| ENG 103 | English Composition 2: Writing about Literature | 3 | | |
| ENG 104 | English Composition 2: Technical Communication | 3 | | |
| ENG 105 | English Composition 2: Business Communication | 3 | | |
| Mathematics Elective | | | | |
| MAT 105 | Quantitative Reasoning | 3 | | |
| MAT 111 | Business Mathematics | 3 | | |
| MAT 120 | Technical Mathematics | 3 | | |
| Arts/Humanities Elective | | | | |
| Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130 | | | | |
| Cooperative Education Electives (4 credit hours required) | | | | |

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| Cooperative Ed | ucation Electives (4 credit hours required) | |
|----------------|--|---|
| CUL 191 | Part-Time Cooperative Education 1: Culinary Arts | 1 |
| CUL 192 | Part-Time Cooperative Education 2: Culinary Arts | 1 |
| CUL 193 | Part-Time Cooperative Education 3: Culinary Arts | 1 |
| CUL 194 | Part-Time Cooperative Education 4: Culinary Arts | 1 |
| CUL 291 | Full-Time Cooperative Education 1: Culinary Arts | 2 |
| CUL 292 | Full-Time Cooperative Education 2: Culinary Arts | 2 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Culinary Arts Certificate (CAC)

| Semester 1 | | Lec | Lab C | redits |
|---------------|-------------------------|-----|-------|--------|
| CUL 100 | Culinary Demonstration | 2 | 0 | 2 |
| CUL 101 | Culinary 1 | 0 | 6 | 3 |
| CUL 102 | Culinary 2 | 0 | 6 | 3 |
| HRM 105 | Food Service Sanitation | 1 | 0 | 1 |
| XXX XXX | | | | 3 |
| Culinary | | | | |
| Elective | | | | |
| Total Credits | : | 3 | 12 | 12 |

Electives

Culinary Elective

| CUL 105 | Culinary Baking | 3 |
|---------|--------------------------------|---|
| CUL 110 | Culinary Nutrition | 3 |
| HRM 110 | Food and Beverage Cost Control | 3 |

Culinary Arts (CUL)

- Demonstrate acceptable procedures when preparing potentially hazardous foods.
- Demonstrate good personal hygiene and health habits.
- Demonstrate safe and competent knife skills and tool and equipment operation.
- Use a standardized recipe.
- Prepare a variety of non-grand and classical sauces.
- Perform basic fabrication tasks with meat, poultry, and seafood.
- · Calculate food costs and percentages.
- · Evaluate the relationship of beverages to food.
- Demonstrate the ability to earn gainful employment working in the culinary industry.

Faculty

Program Chair

Jeffrey Sheldon, CCE jeffrey.sheldon@cincinnatistate.edu

Advisor

Chef Margaret (Meg) Galvin, CEC, WMCS margaret.galvin@cincinnatistate.edu

Co-op Coordinator

Scott Holubetz, AAB, AOS, BA scott holubetz@cincinnatistate.edu

Dietetic Technology (DT & DMC)

Dietetic Technology (DT)

Dietetic technicians are trained in food preparation and nutrition and are an integral part of health care and food service management

teams. They promote optimal health through proper nutrition by providing personalized services to meet clients' nutritional needs, and are trained to supervise people who prepare and serve food.

Dietetic technicians work independently or in teams with registered dietitians in a variety of employment settings, including hospitals, nursing care centers, retirement centers, schools, food companies, and community health programs.

Program graduates earn an Associate of Applied Science degree that includes 472 hours of directed practice and practicums. Students are also required to complete an additional 31 hours of professional meetings, food shows, and wellness and program support activities.

The program is accredited by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics, 120 South Riverside, Plaza Suite 2000, Chicago IL 60606. Website www.eatrightacend.org/ACEND (http://www.eatrightacend.org/ACEND). Phone (312) 899-0040, extension 5400.

Graduates of the program are eligible to take the Exam for Dietetic Technicians' national exam to become a Dietetic Technician, Registered.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Dietary Management Certificate (DMC)

Dietary Managers work in teams with registered dietitians and dietetic technicians and are an integral part of health care and food service management teams. The Dietary Management Certificate program provides courses in food service management, nutrition, sanitation and human resource.

Program graduates earn a Certificate as a Dietary Manager which includes 252 hours of directed practice and practicums. Students are also required to complete an additional 27 hours of professional meetings, food show, and wellness and program support.

The program is accredited by the Association of Nutrition & Foodservice Professionals, 406 Surrey Woods Drive, St. Charles, IL 60174. Phone (800) 323-1908. Website www.afnponline.org (http://www.anfponline.org).

Upon successful completion of the program, graduates are eligible to take the national certification exam to become a Certified Dietary Manager, Certified Food Protection Professional.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Dietetic Technology (DT)

| Semester 1 | | Lec | Lab Credits | |
|------------|-------------------------------|-----|-------------|---|
| BIO 151 | Anatomy and Physiology 1 (G) | 3 | 2 | 4 |
| DT 110 | Community Nutrition (T) | 2 | 2 | 3 |

| DT 120 | Nutrition for a Healthy Lifestyle (B) | 3 | 0 | 3 |
|-----------------------|--|----|----|----|
| DT 190 | Dietetic Professional Practices (B) | 1 | 0 | 1 |
| HRM 105 | Food Service Sanitation (B) | 1 | 0 | 1 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| DT 115 | Cooking for a Healthy Lifestyle (T) | 1 | 3 | 2 |
| DT 125 | Nutrition Through the Lifecycle (T) | 3 | 0 | 3 |
| DT 130 | Nutrition Assessment (T) | 1 | 2 | 2 |
| DT 180 | Dietetic Directed Practice: Health Care 1 (T) | 0 | 5 | 1 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| Semester 3 | | | | |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| MAT 1XX | | 3 | 0 | 3 |
| Mathematics | | | | |
| Elective (G) | | 3 | 0 | 3 |
| Social/ | | 3 | U | 3 |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Semester 4 | | | | |
| DT 205 | Quantity Food Production (T) | 0 | 6 | 3 |
| DT 211 | Food Service Management 1 (T) | 2 | 0 | 2 |
| DT 221 | Medical Nutrition Therapy 1 (T) | 2 | 2 | 3 |
| DT 280 | Dietetic Directed Practice: Food | 0 | 6 | 1 |
| | Service (T) | | | |
| DT 283 | Dietetic Directed Practice: Health Care 2 (T) | 0 | 5 | 1 |
| DT 285 | Dietetic Directed Practice: Health | 0 | 5 | 1 |
| | Care 3 (T) | | | |
| HRM 110 | Food and Beverage Cost Control (B) | 3 | 0 | 3 |
| Semester 5 | | | | |
| CHE 110 | Fundamentals of Chemistry (B) | 3 | 3 | 4 |
| DT 212 | Food Service Management 2 (T) | 2 | 0 | 2 |
| DT 222 | Medical Nutrition Therapy 2 (T) | 2 | 2 | 3 |
| DT 287 | Dietetic Practicum: Food Service (| 1 | 7 | 2 |
| | T) | | | |
| DT 289 | Dietetic Practicum: Clinical (T) | 1 | 7 | 2 |
| DT 290 | Dietetic Competencies (T) | 2 | 0 | 2 |
| Total Credits: | | 49 | 59 | 66 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|----------------------------|---|
| FYE 105 | College Success Strategies | 2 |

| FYE 110 | Community College Experience | 3 |
|-----------------|---|---|
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Mathematics Ele | ective | |
| MAT 111 | Business Mathematics | 3 |
| MAT 131 | Statistics 1 | 3 |
| MAT 151 | College Algebra | 4 |
| Social/Behavior | al Science Elective | |
| Any PSY, SOC | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Dietary Management Certificate (DMC)

| Semester 1 | | Lec | Lab C | redits |
|---------------|---|-----|-------|--------|
| HRM 105 | Food Service Sanitation | 1 | 0 | 1 |
| DT 120 | Nutrition for a Healthy Lifestyle | 3 | 0 | 3 |
| DT 110 | Community Nutrition | 2 | 2 | 3 |
| DT 190 | Dietetic Professional Practices | 1 | 0 | 1 |
| Semester 2 | | | | |
| DT 115 | Cooking for a Healthy Lifestyle | 1 | 3 | 2 |
| DT 125 | Nutrition Through the Lifecycle | 3 | 0 | 3 |
| DT 130 | Nutrition Assessment | 1 | 2 | 2 |
| DT 180 | Dietetic Directed Practice: Health Care 1 | 0 | 5 | 1 |
| Semester 3 | | | | |
| DT 211 | Food Service Management 1 | 2 | 0 | 2 |
| DT 215 | Nutrition for Dietary Managers | 2 | 0 | 2 |
| DT 280 | Dietetic Directed Practice: Food Service | 0 | 6 | 1 |
| DT 205 | Quantity Food Production | 0 | 6 | 3 |
| Semester 4 | | | | |
| DT 225 | Dietary Manager Exam Review | 1 | 0 | 1 |
| DT 287 | Dietetic Practicum: Food Service | 1 | 7 | 2 |
| DT 212 | Food Service Management 2 | 2 | 0 | 2 |
| HRM 110 | Food and Beverage Cost Control | 3 | 0 | 3 |
| Total Credits | : | 23 | 31 | 32 |

Dietetic Technology (DT)

- Access data, references, patient education materials, and consumer and other information from credible sources.
- Implement actions based on care plans, protocols, policies and evidence-based practice.

- Adhere to current federal regulations and state statutes and rules, as applicable and in accordance with accreditation standards and the Scope of Dietetics Practice, Standards of Professional Practice, and the Code of Ethics for the Profession of Dietetics.
- Use clear and effective oral and written communication.
- Prepare and deliver sound food and nutrition presentations to a target audience.
- Demonstrate active participation, teamwork, and contributions in group settings.
- Prepare a plan for professional development according to Commission on Dietetic Registration guidelines.
- Participate in advocacy on local, state, or national legislative and regulatory issues or policies impacting the nutrition and dietetics profession.
- Perform nutrition screening and identify clients or patients to be referred to a registered dietitian nutritionist.
- Perform specific activities of the Nutrition Care Process as assigned by registered dietitian nutritionists in accordance with the Scope of Nutrition and Dietetics Practice for individuals, groups, and populations in a variety of settings.
- · Provide nutrition and lifestyle education to well populations.
- Develop nutrition education materials for disease prevention and health improvement that are culturally and age appropriate and designed for the educational level of the audience.
- Perform supervisory functions for purchasing, production, and service of food that meets nutrition guidelines, cost parameters, and health needs.
- Modify recipes and menus for acceptability and affordability that accommodate the cultural diversity and health status of various populations, groups, and individuals.
- · Perform supervisory, education, and training functions.
- Implement and adhere to budgets.

Faculty

Program Chair/Advisor

Candice Jones, M.Ed., RD, LD, CDE candice.jones@cincinnatistate.edu

Hospitality Management (HOSP)

Hospitality Management (HOSP)

In the Hospitality Management program at Cincinnati State, students learn the basics of lodging and restaurant operation, along with event management skills and hospitality management training. Students develop knowledge and skills through classroom instruction, laboratory experience, and cooperative education.

Graduates earn an Associate of Applied Business degree and are prepared for supervisory positions in a variety of hospitality venues.

All Hospitality Management courses are available online, which provides flexibility for students in completing degree requirements. However, the course HRM 105, Food Service Sanitation, must be completed via a proctored exam to qualify for a national certification through the American Culinary Federation.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Hospitality Management (HOSP)

| Semester 1 FYE 1XX | | Lec 1 | Lab Cr | edits |
|--|--|----------|---------|--------|
| First Year Experience Elective (B) | | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| HRM 100 | Hospitality Careers (T) | 1 | 0 | 1 |
| IM 1XX Computer Elective (B) | | 2 | 3 | 3 |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |
| MAT XXX Mathematics Elective (G) | | 3 | 0 | 3 |
| Semester 2 | | | | |
| BUS 190 | Professional Practices (T) | 1 | 0 | 1 |
| ENG 10X | | 3 | 0 | 3 |
| English Composition Elective (G) | | | | |
| HRM 110 | Food and Beverage Cost Control (T) | 3 | 0 | 3 |
| HRM 115 | Rooms Division Management (T) | 4 | 0 | 4 |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 |
| Semester 3 | | | | |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| COMM 1XX Communication Elective (T) | on | 3 | 0 | 3 |
| HRM 130 | Food and Beverage Division Management (T) | 4 | 0 | 4 |
| MKT 1XX | | 3 | 0 | 3 |
| Marketing Elective (B) | | | | |
| Semester 4 MGT 220 | Loodorobin (T) | 2 | 0 | 2 |
| HRM X9X | Leadership (T) | 3 1 | 0 40 | 3 2 |
| Cooperative Education Elective: Hospitality Management (T) | | ' | 40 | 2 |
| Semester 5 | | | | |
| ACC 102 | Managerial Accounting (T) | 2 | 2 | 3 |
| XXX XXX Arts/ Humanities Elective (G) | | 3 | 0 | 3 |
| HRM 135 | Event, Meeting, and Convention Management (T) | 4 | 0 | 4 |

| LAW 101 | Business Law (B) | 3 | 0 | 3 |
|---------------|-------------------|----|----|----|
| Semester 6 | | | | |
| HRM X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| Elective: | | | | |
| Hospitality | | | | |
| Managemen | t | | | |
| (T) | | | | |
| Total Credits | :: | 56 | 87 | 61 |

Electives

| First | Year | Experience | Elective |
|--------------|------|------------|-----------------|
|--------------|------|------------|-----------------|

| Thou Tour Expo | | |
|--------------------------------|---|---|
| FYE 100 | College Survival Skills | 1 |
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Computer Elec | tive | |
| IM 111 | Computer Applications 1 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| IM 200 | Information Systems for Managers | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Mathematics E | lective | |
| MAT 105 | Quantitative Reasoning | 3 |
| MAT 111 | Business Mathematics | 3 |
| MAT 115 | Pre-Statistics | 3 |
| MAT 131 | Statistics 1 | 3 |
| MAT 132 | Statistics 2 | 3 |
| MAT 151 | College Algebra | 4 |
| MAT 215 | Business Calculus | 6 |
| MAT 251 | Calculus 1 | 5 |
| MAT 252 | Calculus 2 | 5 |
| Communication | n Elective | |
| COMM 105 | Interpersonal Communication | 3 |
| COMM 110 | Public Speaking | 3 |
| Arts/Humanitie | s Elective | |
| Any Transfer Mo or COMM 130 | odule course from ART, LIT, MUS, PHI, REL, THE, | 3 |
| Marketing Elec | tive | |
| MKT 101 | Principles of Marketing | 3 |
| MKT 105 | Marketing and Customer Relations | 3 |
| Cooperative Ed | lucation Electives (4 credit hours required) | |
| HRM 191 | Part-Time Cooperative Education 1: Hospitality Management | 1 |
| HRM 192 | Part-Time Cooperative Education 2: Hospitality Management | 1 |
| HRM 193 | Part-Time Cooperative Education 3: Hospitality Management | 1 |
| HRM 194 | Part-Time Cooperative Education 4: Hospitality Management | 1 |
| | | |

| HRM 291 | Full-Time Cooperative Education 1: Hospitality Management | 2 |
|---------|--|---|
| HRM 292 | Full-Time Cooperative Education 2: Hospitality Management | 2 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Hospitality Management (HOSP)

- Demonstrate a working knowledge and application of hospitality terminology, concepts, and ethics.
- Understand the functions of customer service within the organization and external environments and how customer service contributes to organizational attainment of goals and objectives.
- Recognize the management functions of planning, leading, organizing, and controlling.
- Demonstrate skills in creative and critical thinking, written and oral communication, and ethical reasoning that will enable students to interact with employers, suppliers, and customers.
- Demonstrate the ability to comply with current laws, rules, and regulations governing food service, lodging, and tourism.
- Assess and develop individual communication, leadership, and team building skills while recognizing and adapting to the communication, leadership, and team building styles of others.
- Understand how to effectively manage the resources of hospitality operations, including human resources and financial controls.

Faculty

Program Chair/Advisor

Paula Kirch Smith, M.Ed., CHE paula.kirchsmith@cincinnatistate.edu

Co-op Coordinator

Scott Holubetz, AAB, AOS, BA scott.holubetz@cincinnatistate.edu

Pastry Arts (PAS)

Pastry Arts (PAS)

The Pastry Arts program at Cincinnati State prepares students for employment in the culinary industry as pastry chefs or as bakers in the field of baking and confectionery.

The courses include technical aspects of baking and pastry commonly used in the industry, such as preparing yeast dough; producing cakes, cookies, and cold desserts; and constructing pastry centerpieces.

Graduates earn an Associate of Applied Business degree.

The Pastry Arts program is accredited by the American Culinary Federation Education Foundation Accrediting Commission (ACFEFAC). Website: http://www.acfchefs.org.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Pastry Arts (PAS)

| Semester 1 | | Lec | Lab C | edits |
|-----------------------------------|---------------------------------------|-----|-------|-------|
| DT 120 | Nutrition for a Healthy Lifestyle (T) | 3 | 0 | 3 |
| HRM 100 | Hospitality Careers (B) | 1 | 0 | 1 |
| PAS 100 | Theory of Baking (T) | 3 | 0 | 3 |
| PAS 110 | Celebration Cakes (T) | 0 | 6 | 3 |
| PAS 105 | Fundamentals of Baking (T) | 0 | 6 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| HRM 105 | Food Service Sanitation (B) | 1 | 0 | 1 |
| Semester 2 | | | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IM 111 | Computer Applications 1 (B) | 2 | 3 | 3 |
| PAS 115 | Pastry Production and Design (T) | 0 | 6 | 3 |
| PAS 120 | Nutritional Baking and Cuisine (T) | 1 | 4 | 3 |
| ART 1XX Art | | 2 | 2 | 3 |
| Elective (G) | | | | |
| Semester 3 | | | | |
| PAS X9X | | 1 | 40 | 2 |
| Cooperative Education | | | | |
| Elective 1: | | | | |
| Pastry Arts | | | | |
| (T) | | | | |
| Semester 4 | | | | |
| ECO 105 | Principles of Microeconomics (G) | 3 | 0 | 3 |
| PAS 210 | Advanced Pastry and Buffet | 0 | 6 | 3 |
| | Design (T) | | | |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition Elective (G) | | | | |
| MAT 1XX | | 3 | 0 | 3 |
| Mathematics | | 3 | O | 3 |
| Elective (G) | | | | |
| PAS 2XX | | 0 | 6 | 3 |
| Pastry | | | | |
| Elective (T) | | | | |
| Semester 5 | | | | |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| HRM 110 | Food and Beverage Cost Control | 3 | 0 | 3 |
| | (T) | | | |

| MGT 105 | Human Resource Management (B) | 3 | 0 | 3 |
|--------------------------|--|----------|-----------|-----|
| MKT 101 | Principles of Marketing (B) | 3 | 0 | 3 |
| PAS 290 | Pastry Capstone (T) | 1 | 5 | 3 |
| Semester 6 | | | | |
| PAS X9X | | 0 | 2 | 2 |
| Cooperative Education | | | | |
| Elective 2: | | | | |
| Pastry Arts | | | | |
| (T) | | | | |
| Total Credits: | : | 40 | 88 | 65 |
| Elective | es | | | |
| First Year Ex | xperience Elective | | | |
| FYE 100 | College Survival Skills | | | 1 |
| FYE 105 | College Success Strategies | | | 2 |
| FYE 110 | Community College Experience | | | 3 |
| Art Elective | | | | |
| ART 141 | Drawing 1 | | | 3 |
| ART 161 | Sculpture 1 | | | 3 |
| English Con | nposition Elective | | | |
| ENG 102 | English Composition 2: Contempo | - | | 3 |
| ENG 103 | English Composition 2: Writing ab | out Lite | erature | 3 |
| ENG 104 | English Composition 2: Technical Communication | | | 3 |
| ENG 105 | English Composition 2: Business | Commu | unication | n 3 |
| Mathematics | | | | |
| MAT 105 | Quantitative Reasoning | | | 3 |
| MAT 111 | Business Mathematics | | | 3 |
| Pastry Elect | | | | 0 |
| PAS 215 | Novelty and Theme Cake Produc | | | 3 |
| PAS 220 PAS 225 | Advanced Wedding Cake Produc Artisan Bread Baking | lion | | 3 |
| PAS 225 | Chocolate and Confectionery Pro | duction | | 3 |
| | Education Electives (4 credit hours | | od) | 3 |
| PAS 191 | Part-Time Cooperative Education | - | | 1 |
| PAS 192 | Part-Time Cooperative Education | | - | 1 |
| PAS 193 | Part-Time Cooperative Education | | • | 1 |
| PAS 194 | Part-Time Cooperative Education | | • | 1 |
| PAS 291 | Full-Time Cooperative Education | | | 2 |
| PAS 292 | Full-Time Cooperative Education | | • | 2 |
| descriptions) | , B, and T (displayed after course titles identify types of courses required by the figher Education as part of an associate the course of the | ne Ohio | | |
| G = General I | Education course in this curriculum | | | |
| B = Basic Ski | lls course in this curriculum | | | |
| T = Technical | course in this curriculum | | | |

Pastry Arts (PAS)

- Apply the basic principles of sanitation and safety in food service operations.
- Use and care for equipment normally found in the bakeshop or baking area.
- Demonstrate concepts of purchasing and receiving practices in quality food service operations.
- Apply the principles of nutrient needs throughout the life cycle to menu planning and food preparation.
- Develop skills in human relations and human resources..
- Apply the fundamentals of baking science to the preparation of a variety of products.
- Demonstrate skills in advanced decorating techniques and complex preparations of pastry, confections, and dessert products.
- Demonstrate knowledge of production and plating methods for a variety of baked goods, desserts, and confectioneries.

Faculty

Program Chair

Chef Mary (Betsy) Lasorella, CEPC mary.lasorella@cincinnatistate.edu

Co-Op Coordinator

Scott Holubetz, AAB, AOS, BA scott.holubetz@cincinnatistate.edu

Pre-Nutrition Science (PNS)

Pre-Nutrition Science (PNS)

The Pre-Nutrition Science program prepares students for transfer to a bachelor's degree program in nutrition science, dietetics with emphasis on business or exercise, or other dietetics-related programs. Students who complete the Pre-Nutrition Science program earn an Associate of Science degree and are well prepared to enter a four-year degree program at various institutions in the region.

The Pre-Nutrition Science program includes 105 hours of directed practice. Students are also required to complete an additional 31 hours of professional meetings, food shows, and wellness and program support activities.

Course requirements and application of transfer credits to bachelor's degree programs vary, so students should work closely with their Cincinnati State academic advisor as well as the advisor at the institution where they intend to complete a bachelor's degree.

Students who complete a bachelor's degree program are required to complete an internship before they can take the credentialing exam given by the Commission on Dietetic Registration.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Pre-Nutrition Science (PNS)

| | , | | | |
|------------------------|------------------------------------|-----|-------|--------|
| Semester 1 | | Lec | Lab C | redits |
| BIO 151 | Anatomy and Physiology 1 | 3 | 2 | 4 |
| DT 110 | Community Nutrition | 2 | 2 | 3 |
| DT 120 | Nutrition for a Healthy Lifestyle | 3 | 0 | 3 |
| DT 190 | Dietetic Professional Practices | 1 | 0 | 1 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective | | | | |
| Semester 2 | | | | |
| BIO 152 | Anatomy and Physiology 2 | 3 | 2 | 4 |
| DT 125 | Nutrition Through the Lifecycle | 3 | 0 | 3 |
| DT 130 | Nutrition Assessment | 1 | 2 | 2 |
| DT 180 | Dietetic Directed Practice: Health | 0 | 5 | 1 |
| D1 100 | Care 1 | O | 3 | |
| HRM 105 | Food Service Sanitation | 1 | 0 | 1 |
| MAT XXX | | 3 | 0 | 3 |
| Mathematics | | | | |
| Elective | | | | |
| Semester 3 | Latera de affa a La Daviella la mi | 0 | 0 | 0 |
| PSY 110 | Introduction to Psychology | 3 | 0 | 3 |
| ENG 10X English | | 3 | 0 | 3 |
| Composition | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities | | | | |
| Elective 1 | | | | _ |
| XXX XXX Social/ | | 3 | 0 | 3 |
| Behavioral | | | | |
| Science | | | | |
| Elective | | | | |
| Semester 4 | | | | |
| CHE 110 | Fundamentals of Chemistry | 3 | 3 | 4 |
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| DT 135 | Sports Nutrition | 3 | 0 | 3 |
| DT 205 | Quantity Food Production | 0 | 6 | 3 |
| Semester 5 | | | | |
| CHE 111 | Bio-Organic Chemistry | 3 | 3 | 4 |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ Humanities | | | | |
| Elective 2 | | | | |
| Total Credits: | | 51 | 25 | 61 |
| | | | | |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |

English Composition Elective

| | U | | | |
|------------------------------------|---|--------|---|---|
| | ENG 102 | | English Composition 2: Contemporary Issues | 3 |
| | ENG 103 | | English Composition 2: Writing about Literature | 3 |
| | ENG 105 | | English Composition 2: Business Communication | 3 |
| | Arts/Huma | nities | s Electives | |
| | Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130 | | | 3 |
| Social/Behavioral Science Elective | | | | |
| | | | | |

Any Transfer Module course from ECO, GEO, HST, LBR, POL, PSY, SOC

Mathematics Elective

| MAT 151 | College Algebra | 4 |
|---------|-----------------|---|
| MAT 131 | Statistics 1 | 3 |

Pre-Nutrition Science (PNS)

- Access data, references, patient education materials, and consumer and other information from credible sources.
- Adhere to current federal regulations and state statutes and rules, as applicable and in accordance with accreditation standards and the Scope of Dietetics Practice, Standards of Professional Practice, and the Code of Ethics for the Profession of Dietetics.
- Use clear and effective oral and written communication.
- Prepare and deliver sound food and nutrition presentations to a target audience.
- Demonstrate active participation, teamwork, and contributions in group settings.
- · Participate in professional and community organizations.
- Participate in advocacy on local, state, or national legislative and regulatory issues or policies impacting the nutrition and dietetics profession.
- Perform specific activities of the Nutrition Care Process as assigned by registered dietitian nutritionists in accordance with the Scope of Nutrition and Dietetics Practice for individuals, groups, and populations in a variety of settings.
- Provide nutrition and lifestyle education to well populations.
- Develop nutrition education materials for disease prevention and health improvement that are culturally and age appropriate and designed for the educational level of the audience.

Faculty

Program Chair/Advisor

Candice Jones M.Ed., RD, LD, CDE candice.jones@cincinnatistate.edu

Information Management Technologies

Information Management Technologies programs prepare students for employment in a variety of general and specialized office settings.

The Administrative Office Professional associate's degree program includes technical skill development, understanding of business principles and management, and cooperative education work experience. Students choose one of three tracks:

Administrative Assistant

- · Legal Administrative Assistant
- · Medical Administrative Assistant

Minimum grades of C are required for all technical courses.

Information Management Technologies also offers two certificate programs:

- The Computer Applications Certificate assists professionals who are seeking career development opportunities while earning college credit, as well as students in any program or major who want to increase employment options by adding to their computer skills.
- The Virtual Assistant Certificate is designed for individuals seeking entrepreneurial, flexible employment by operating a home office that offers administrative and business support, over the internet, to companies or professionals.

For more information, please contact the Business Technologies Division at (513) 569-1620.

Administrative Office Professional (AOP)

Administrative Office Professional (AOP)

The Administrative Office Professional degree contains three tracks that correspond to three career areas: Administrative Assistant, Legal Administrative Assistant, and Medical Administrative Assistant.

While earning an Associate of Applied Business degree, students gain strong foundational skills in administrative office procedures and practices, develop competencies using technologies like Microsoft Office Suite, and apply critical thinking and human relations skills.

Students select one of three tracks:

- The Administrative Assistant track develops skills in office, time, and project management, as well as software applications expertise.
- The Legal Administrative Assistant track develops proficiencies needed to work in law firms such as legal office procedures, court filing procedures, legal transcription, and law office protocol.
- The Medical Administrative Assistant track develops skills for medical offices and health care facilities such as medical office procedures; insurance filing; and medical coding, scheduling, and billing.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Administrative Office Professional (AOP)

| (/ | | | | |
|--------------------------------------|---|-----|--------|-------|
| First Year | | | | |
| Semester 1 | | Lec | Lab Cr | edits |
| FYE XXX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience (B) | | | | |
| IM 115 | Administrative Office Procedures and Practices (T) | 2 | 3 | 3 |
| IM 130 | Electronic Word Processing: Microsoft Word (T) | 2 | 3 | 3 |
| XXX XXX | , | 2 | 0 | 2 |
| Track | | | | |
| Elective 1 (T) | | | | |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |
| Semester 2 | | | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel (T) | 2 | 3 | 3 |
| IM 135 | Business Document Formatting (T) | 2 | 3 | 3 |
| IM 150 | Electronic Presentations: Microsoft PowerPoint (T) | 2 | 3 | 3 |
| XXX XXX | , , | 2 | 0 | 2 |
| Track | | | | |
| Elective 2 (T) | | | | |
| Semester 3 | | | | |
| ENG XXX | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | 40 | • |
| IM XXX Cooperative | | 1 | 40 | 2 |
| Education | | | | |
| Elective: | | | | |
| Information | | | | |
| Management | | | | |
| (T) | | | | |
| Semester 4 | | | | |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| IM 155 | Emerging Technologies and Social Media (T) | 2 | 2 | 3 |
| MAT 1XX | | 3 | 0 | 3 |
| Mathematics Elective (G) | | | | |
| MGT 10X | | 3 | 0 | 3 |
| Management Elective (B) | | | | |
| XXX XXX | | 2 | 0 | 2 |
| Track | | | | |
| Elective 3 (T) | | | | |
| Semester 5 | | | | |

| ACC 1XX Accounting Software Elective (B) | | 1 | 0 | 1 |
|---|---|----|-----|----|
| IM 109 | Introductory Database Management: Microsoft Access (T) | 0 | 2 | 1 |
| IM 145 | Document Proofreading and Editing (T) | 2 | 3 | 3 |
| COMM XXX Communication Elective (B) | on | 3 | 0 | 3 |
| XXX XXX Social/ Behavioral Science Elective (G) | | 3 | 0 | 3 |
| XXX XXX Capstone Elective (T) | | 3 | 0 | 3 |
| Semester 6 IM XXX Cooperative Education Elective: Information Management (T) | | 1 | 40 | 2 |
| XXX XXX Arts/ Humanities Elective or Natural Science Elective (G) | | 3 | 0 | 3 |
| Total Credits: | | 54 | 104 | 65 |

Electives

Accounting Software Elective

| ACC 115 | Accounting Software Applications: Sage (Peachtree) | 2 | | | |
|-----------------------|--|---|--|--|--|
| ACC 121 | Computerized Bookkeeping: QuickBooks 1 | 1 | | | |
| English Compos | sition Elective | | | | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 | | | |
| ENG 103 | English Composition 2: Writing about Literature | 3 | | | |
| ENG 104 | English Composition 2: Technical Communication | 3 | | | |
| ENG 105 | English Composition 2: Business Communication | 3 | | | |
| Communication | Elective | | | | |
| COMM 105 | Interpersonal Communication | 3 | | | |
| COMM 110 | Public Speaking | 3 | | | |
| Capstone Electi | ve | | | | |
| IM 260 | Medical Administrative Procedures | 3 | | | |
| IM 290 | Administrative Assistant Capstone | 3 | | | |
| Management Ele | Management Elective | | | | |
| MGT 101 | Principles of Management | 3 | | | |
| | | | | | |

| MGT 105 | Human Resource Management | 3 |
|-----------------------------|--|---|
| Mathematics El | ective | |
| MAT 111 | Business Mathematics | 3 |
| MAT 115 | Pre-Statistics | 3 |
| MAT 131 | Statistics 1 | 3 |
| MAT 151 | College Algebra | 4 |
| Social/Behavior | ral Science Elective | |
| Any Transfer Mo PSY, SOC | dule course from ECO, GEO, HST, LBR, POL, | 3 |
| | s Elective (take one course from Arts/ Natural Science) | |
| * | dule course from ART, LIT, MUS, PHI, REL, THE, Any CULT, FRN, ITP, SPN | 3 |
| | e Elective (take one course from Arts/ Natural Science) | |
| | dule course from BIO, CHE, EVS, PHY, PSC | 3 |
| , | Assistant Track Electives | |
| IM 111 | Computer Applications 1 | 3 |
| IM 160 | Electronic Publications: Microsoft Publisher | 3 |
| IM 170 | Electronic Project Management: Microsoft Project | 3 |
| Legal Administr | rative Assistant Track Electives | |
| IM 165 | Legal Office Environment | 3 |
| IM 225 | Legal Transcription and Formatting | 3 |
| LAW 150 | Bankruptcy, Debt Collection and Secured Transactions | 3 |
| Medical Admini | strative Assistant Track Electives | |
| MCH 101 | Medical Terminology 1 | 2 |
| MCH 102 | Medical Terminology 2 | 2 |
| MA 120 | Medical Office Insurance Coding and Billing | 2 |
| Cooperative Ed | ucation Electives (must take 4 credit hours) | |
| IM 191 | Part-Time Cooperative Education 1: Information Management | 1 |
| IM 192 | Part-Time Cooperative Education 2: Information Management | 1 |
| IM 193 | Part-Time Cooperative Education 3: Information Management | 1 |
| IM 194 | Part-Time Cooperative Education 4: Information Management | 1 |
| IM 291 | Full-Time Cooperative Education 1: Information Management | 2 |
| IM 292 | Full-Time Cooperative Education 2: Information Management | 2 |

Administrative Office Professional (AOP)

- Handle standard administrative office procedures and practices, such as dealing with customers, preparing presentations, ordering supplies, ordering repairs to equipment, publishing newsletters, organizing company events, supervising other clerical employees, managing multiple-line telephones, managing files, distributing mail, coordinating travel, scheduling meetings, and updating calendars.
- Demonstrate the ability to competently use up-to-date Microsoft Office application software programs (word processing,

- spreadsheet, graphic presentation, and database management) along with up-to-date personal computer operating system software (Windows) to produce files and documents.
- Identify, evaluate, and apply principles of office management and demonstrate competence in performing professional tasks such as administrative clerical duties; and managing office processes, projects, records, and data electronically and manually.
- Describe and apply principles of effective oral, written, and electronic communication skills for interpersonal, group, and office communication while applying critical thinking, problem solving, and human relations skills.
- Integrate information to monitor and apply principles of office
 management for the supervision of multi-phase business projects
 combined with organizational/technical skills to improve office
 workflow using office technology tools such as videoconferencing
 equipment, photocopiers, printers, scanners, and fax machines.
- Demonstrate professional/ethical behaviors and attitudes when disseminating legal, medical, or personal information.
- Communicate using digital technology, social media, videoconferencing, and voice recognition programs.
- Demonstrate proficiency in legal office procedures, court filing procedures, legal transcription, and law office protocol, for legal administrative assistants.
- Demonstrate proficiency in medical office procedures, insurance filing, medical coding, scheduling, and billing, for medical administrative assistants.

Faculty

Program Chair

Connie Crossley, BA, BS, M.Ed. connie.crossley@cincinnatistate.edu

Co-op Coordinator

Brian Hooten, MAOL brian.hooten@cincinnatistate.edu

Advisors

Dr. Viola Johnson, Ed.D viola.johnson@cincinnatistate.edu

Colleen Meyer, M.Ed., CIW-CI, CIW Associate colleen.meyer@cincinnatistate.edu

David Hensley, BS, MBA david.hensley@cincinnatistate.edu

Computer Applications Certificate (CAPC)

Computer Applications Certificate (CAPC)

The Computer Applications Certificate assists professionals who are seeking career development opportunities while earning college credit, as well as students in any program or major who want to increase employment options by adding to their computer skills.

The certificate program builds proficiencies in using Microsoft Office software within a workplace environment. Many of the certificate

courses prepare students to take Microsoft Office Support and Expert Specialist certification tests for various Microsoft Office software applications.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Applications Certificate (CAPC)

| Semester 1 | | Lec | Lab C | redits |
|---------------------------------|---|-----|-------|--------|
| IM 111 | Computer Applications 1 | 2 | 3 | 3 |
| IM 130 | Electronic Word Processing: Microsoft Word | 2 | 3 | 3 |
| IM 150 | Electronic Presentations: Microsoft PowerPoint | 2 | 3 | 3 |
| Semester 2 | | | | |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 2 | 3 | 3 |
| IM 160 | Electronic Publications: Microsoft Publisher | 2 | 2 | 3 |
| IM XXX Technical Elective | | 2 | 2 | 3 |
| Semester 3 | | | | |
| IM 112 | Computer Applications 2 | 2 | 3 | 3 |
| IM 135 | Business Document Formatting | 2 | 3 | 3 |
| IM 140 | Electronic Database Management: Microsoft Access | 2 | 2 | 3 |
| IM 290 | Administrative Assistant Capstone | 2 | 3 | 3 |
| Total Credits: | | 20 | 27 | 30 |

Electives

Technical Elective

| IM 115 | Administrative Office Procedures and Practices | 3 |
|--------|--|---|
| IM 145 | Document Proofreading and Editing | 3 |
| IM 155 | Emerging Technologies and Social Media | 3 |
| IM 165 | Legal Office Environment | 3 |
| IM 170 | Electronic Project Management: Microsoft Project | 3 |
| IM 175 | Administrative Office Management | 3 |
| IM 200 | Information Systems for Managers | 3 |

Faculty

Program Chair

Professor Connie Crossley, BA, BS, M.Ed. connie.crossley@cincinnatistate.edu

Virtual Assistant Certificate (VAC)

Virtual Assistant Certificate (VAC)

The Virtual Assistant Certificate is designed for individuals seeking entrepreneurial, flexible employment by operating a home office that offers administrative and business support, over the internet, to companies or professionals.

Students pursuing this certificate should be currently employed in a secretarial or office support role, with at least two years of verified experience in the field. In addition, students seeking the Virtual Assistant Certificate should have fluency in keyboarding, computer skills, and communication as well as strong self-motivation skills.

This certificate program does not include cooperative education.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Virtual Assistant Certificate (VAC)

| Semester 1 | | Lec | Lab C | redits |
|----------------------|---|-----|-------|--------|
| IM 115 | Administrative Office Procedures and Practices | 2 | 3 | 3 |
| IM 130 | Electronic Word Processing: Microsoft Word | 2 | 3 | 3 |
| IM 145 | Document Proofreading and Editing | 2 | 3 | 3 |
| IM 150 | Electronic Presentations: Microsoft PowerPoint | 2 | 3 | 3 |
| Semester 2 | | | | |
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 2 | 3 | 3 |
| IM 135 | Business Document Formatting | 2 | 3 | 3 |
| Semester 3 | | | | |
| IM 155 | Emerging Technologies and Social Media | 2 | 2 | 3 |
| IM 170 | Electronic Project Management: Microsoft Project | 2 | 3 | 3 |
| MGT 120 | Entrepreneurship | 3 | 0 | 3 |
| ACC 1XX | | 1 | 0 | 1 |
| Accounting | | | | |
| Software Elective | | | | |
| Total Credits | : | 22 | 25 | 31 |

Accounting Software Elective

| ACC 115 | Accounting Software Applications: Sage (Peachtree) | 2 |
|---------|--|---|
| ACC 121 | Computerized Bookkeeping: QuickBooks 1 | 1 |

Faculty

Program Chair

Professor Connie Crossley, BA, BS, M.Ed. connie.crossley@cincinnatistate.edu

Landscape Horticulture Technologies

An appreciation for nature is a prerequisite for careers in the diverse field of landscape and turf management, which is experiencing strong growth in the Greater Cincinnati area. Horticulture students learn to combine skills in art, science, and business management to enhance the world around them.

The department offers three programs leading to an Associate of Applied Business degree and two certificate programs.

- Landscape Horticulture provides opportunities to specialize in landscape design and contracting, landscape management, plant production, tree care, interior plantscaping, and floral design.
- Sustainable Horticulture is an option for students interested in solving ecological challenges through new landscape techniques, such as managing stormwater and reducing energy consumption.
- Turfgrass Management prepares graduates for careers in golf course, sports turf, and commercial or residential lawn management.
- The Landscape Design Certificate allows students to concentrate on courses specific to landscape design and construction, and is best utilized in conjunction with the Landscape Horticulture or Sustainable Horticulture degree.
- The Sustainable Agriculture Management Certificate offers a concentration on specialty crop food production in an urban environment.

A significant number of students double-major in Landscape Horticulture and Turfgrass Management, to increase opportunities in the green industries, or double-major in Landscape Horticulture and Sustainable Horticulture. Another double major option is Landscape Horticulture Technology and Business Management Technology.

Because of seasonal employment opportunities for horticultural jobs, cooperative education assignments usually occur during the Summer semester.

For more information, please contact the Business Technologies Division at (513) 569-1620.

Landscape Horticulture (LH & LDC)

Landscape Horticulture (LH)

The Landscape Horticulture program focuses on interior and exterior landscape design, installation, and management.

Students complete foundation courses in horticulture, and then take additional technical courses in subject areas tailored to individual needs, including advanced landscape design, computerized landscape design, landscape construction, arboriculture, or greenhouse or

nursery management. Core business courses prepare students for management positions.

The Landscape Horticulture degree program is accredited by the National Association of Landscape Professionals (NALP).

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Landscape Design Certificate (LDC)

The Landscape Design Certificate is for students interested in learning landscape design skills, and is an excellent addition to the Landscape Horticulture major.

For students who already have an associate's or bachelor's degree (usually in business or horticulture), the Landscape Design Certificate meets the need for professional credentials in the field of landscape design.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Landscape Horticulture (LH)

| Semester 1 | | Lec | Lab Cr | edits |
|--|---------------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| LH 105 | Horticulture Occupations (B) | 1 | 1 | 1 |
| LH 120 | Soil Science and Plant Nutrition (T) | 2 | 2 | 3 |
| LH 130 | Woody Plant Materials (T) | 1 | 5 | 3 |
| LH 125 | Turfgrass Management (B) | 2 | 2 | 3 |
| LH 140 | Landscape Operations (B) | 2 | 3 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 |
| LH 110 | Horticulture Science (G) | 2 | 3 | 3 |
| LH 151 | Landscape Design 1 (T) | 2 | 3 | 3 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| XXX XXX Computer Elective (T) | | 2 | 3 | 3 |
| MAT 1XX Mathematics Elective (G) | | 3 | 0 | 3 |
| Semester 3 | Harbanas Diant Materials (T) | 0 | 0 | 2 |
| LH 135 | Herbaceous Plant Materials (T) | 2 | 3 | 3 |

| LH 165 LH X9X Cooperative Education Elective 1: Landscape Horticulture (T) Semester 4 | Landscape Construction (T) | 2 1 | 3 40 | 3 2 |
|---|----------------------------------|-----|---------|-----|
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 |
| | busiliess Law (b) | | | |
| LH XXX Landscape Elective 1 (T) | | 2 | 3 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Management Marketing Elective (B) | / | 3 | O . | J |
| Semester 5 | | | | |
| LH 205 | Landscape Pests and Controls (T) | 2 | 3 | 3 |
| LH 240 | Landscape Management (T) | 2 | 3 | 3 |
| LH XXX Landscape Elective 2 (T) | | 3 | 0 | 3 |
| XXX XXX Arts/ | | 3 | 0 | 3 |
| Humanities Elective or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) Semester 6 | | | | |
| | | | 40 | 0 |
| LH X9X Cooperative | | 1 | 40 | 2 |
| Education | | | | |
| Elective 2: | | | | |
| Landscape | | | | |
| Horticulture | | | | |
| (T) | | | | |
| Total Credits: | | 51 | 119 | 67 |

Electives

First Year Experience Elective

| | · · | |
|-----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Computer Elect | ive | |
| LH 155 | Computer-Aided Landscape Design | 3 |
| IM 111 | Computer Applications 1 | 3 |
| | | |

College Survival Skills

| IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 | | | |
|-------------------------------------|---|---|--|--|--|
| Mathematics Elective | | | | | |
| MAT 105 | Quantitative Reasoning | 3 | | | |
| MAT 111 | Business Mathematics | 3 | | | |
| MAT 115 | Pre-Statistics | 3 | | | |
| MAT 120 | Technical Mathematics | 3 | | | |
| MAT 125 | Algebra and Trigonometry | 4 | | | |
| Landscape Elec | ctive | | | | |
| LH 115 | Floral Design and Marketing | 3 | | | |
| LH 160 | Irrigation Design, Installation, and Management | 3 | | | |
| LH 175 | Interior Plantscaping | 3 | | | |
| LH 215 | Arboriculture | 3 | | | |
| LH 225 | Greenhouse Management and Plant Production | 3 | | | |
| LH 252 | Landscape Design 2 | 3 | | | |
| LH 265 | Landscape Grading, Drainage, and Surveying | 3 | | | |
| Management/M | arketing Elective | | | | |
| MGT 101 | Principles of Management | 3 | | | |
| MGT 105 | Human Resource Management | 3 | | | |
| MGT 120 | Entrepreneurship | 3 | | | |
| MGT 130 | Project Management | 3 | | | |
| MKT 101 | Principles of Marketing | 3 | | | |
| MKT 105 | Marketing and Customer Relations | 3 | | | |
| MKT 130 | Professional Selling | 3 | | | |
| | s Elective or Social/Behavioral Science | | | | |
| Elective (select | | | | | |
| Any Transfer Mo or COMM 130 | dule course from ART, LIT, MUS, PHI, REL, THE, | | | | |
| or, any Transfer PSY, SOC, or SI | Module course from ECO, GEO, HST, LBR, POL, PN 101 | | | | |
| Cooperative Ed | ucation Electives (4 credit hours required) | | | | |
| LH 191 | Part-Time Cooperative Education 1: Landscape Horticulture | 1 | | | |
| LH 192 | Part-Time Cooperative Education 2: Landscape Horticulture | 1 | | | |
| LH 193 | Part-Time Cooperative Education 3: Landscape Horticulture | 1 | | | |
| LH 194 | Part-Time Cooperative Education 4: Landscape Horticulture | 1 | | | |
| LH 291 | Full-Time Cooperative Education 1: Landscape Horticulture | 2 | | | |

Computer Applications 2

3

IM 112

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

Full-Time Cooperative Education 2: Landscape

2

G = General Education course in this curriculum

Horticulture

B = Basic Skills course in this curriculum

LH 292

T = Technical course in this curriculum

Landscape Design Certificate (LDC)

| Semester 1 | | Lec | Lab C | redits |
|---------------|---|-----|-------|--------|
| LH 105 | Horticulture Occupations | 1 | 1 | 1 |
| LH 110 | Horticulture Science | 2 | 3 | 3 |
| LH 120 | Soil Science and Plant Nutrition | 2 | 2 | 3 |
| LH 130 | Woody Plant Materials | 1 | 5 | 3 |
| LH 140 | Landscape Operations | 2 | 3 | 3 |
| LH 151 | Landscape Design 1 | 2 | 3 | 3 |
| Semester 2 | | | | |
| LH 135 | Herbaceous Plant Materials | 2 | 3 | 3 |
| LH 155 | Computer-Aided Landscape Design | 2 | 3 | 3 |
| LH 160 | Irrigation Design, Installation, and Management | 2 | 3 | 3 |
| LH 165 | Landscape Construction | 2 | 3 | 3 |
| Semester 3 | | | | |
| LH 240 | Landscape Management | 2 | 3 | 3 |
| LH 252 | Landscape Design 2 | 2 | 3 | 3 |
| LH 265 | Landscape Grading, Drainage, and Surveying | 2 | 2 | 3 |
| Total Credits | : | 24 | 37 | 37 |

Landscape Horticulture (LH)

- LH graduates are prepared to enter the green industry workforce at the technician level or above.
- LH graduates complete a rigorous curriculum based on sound science.
- LH graduates are prepared to design, sell, and install landscapes.
- LH graduates are prepared to estimate and price proposals for landscape management services.
- LH graduates have a broad-based knowledge of woody and herbaceous plants including identification, culture, and potential issues with common landscape plants.
- LH graduates can communicate effectively through multiple means.
- LH graduates can recognize, evaluate, and solve problems in landscapes.
- LH graduates can identify and safely operate a variety of equipment and tools commonly used in the green industry.
- LH graduates can identify potential plant pests, determine if controls are needed, evaluate potential controls, and apply the most effective control.

Faculty

Program Chair

Professor Samuel (Mark) Deacon, MS mark.deacon@cincinnatistate.edu

Advisor

Professor Heather Augustine, MS, LEED Green Associate heather.augustine@cincinnatistate.edu

Co-op Coordinator

Brian Hooten, MAOL

brian.hooten@cincinnatistate.edu

Sustainable Horticulture (SH & AGRC)

Sustainable Horticulture (SH)

In the Sustainable Horticulture program students learn sustainable landscape techniques and technologies including design, implementation, and management of green roofs and green walls; stormwater management best practices; sustainable choices in plant materials; and use of alternative energy systems in landscapes.

Students complete foundation courses in landscape horticulture and environmental science, and then take additional technical courses in sustainable horticulture.

Core business courses prepare students for leadership roles in local businesses and municipalities, while cooperative education employment experiences allow students to further develop their knowledge in positions with companies utilizing sustainable horticulture.

The Sustainable Horticulture program is accredited by the National Association of Landscape Professionals (NALP).

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Sustainable Agriculture Management Certificate (AGRC)

The Sustainable Agriculture Management Certificate program leads to career opportunities in specialty crop growing operations, farmers' markets, and other urban agriculture initiatives.

The program is designed for completion in one year (three semesters) as a full-time student. Students are involved in continuous hands-on learning at a local farm throughout the program.

Coursework includes soil and plant science, detailed production of specialty crops, and an introduction to raising small animals, along with the financial, marketing, and management skills needed to successfully run an agriculture business.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Sustainable Horticulture (SH)

| Semester 1 | I | Lec | Lab Cr | edits |
|------------|------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| LH 140 | Landscape Operations (T) | 2 | 3 | 3 |
| LH 105 | Horticulture Occupations (B) | 1 | 1 | 1 |

| LH 120 | Soil Science and Plant Nutrition (| 2 | 2 | 3 | Semester 6 | | |
|------------------------------------|------------------------------------|---|----|---|-----------------------------------|---|----|
| 211 120 | T) | _ | _ | Ü | LH X9X | 1 40 | 2 |
| LH 130 | Woody Plant Materials (B) | 1 | 5 | 3 | Cooperative | | |
| FYE 1XX | | 1 | 0 | 1 | Education | | |
| First Year | | | | | Elective 2: | | |
| Experience | | | | | Landscape Horticulture | | |
| Elective (B) | | | | | (T) | | |
| XXX XXX Environment | al | | | 3 | Total Credits: | 48 120 | 67 |
| Science Elective (B) | | | | | Electives | | |
| Semester 2 | | | | | First Year Exp | erience Elective | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 | FYE 100 | College Survival Skills | 1 |
| LH 110 | Horticulture Science (G) | 2 | 3 | 3 | FYE 105 | College Success Strategies | 2 |
| LH 151 | Landscape Design 1 (T) | 2 | 3 | 3 | FYE 110 | Community College Experience | 3 |
| LH 155 | Computer-Aided Landscape | 2 | 3 | 3 | Environmenta | I Science Elective | |
| ENG 1XX | Design (T) | 3 | 0 | 3 | EVS 110 | Environmental Science: Conservation and Cleanup | 4 |
| English | | | | | EVS 120 | Environmental Geology | 4 |
| Composition | | | | | EVS 130 | Environmental Science: Ecology and | 4 |
| Elective (G) | | 0 | 0 | 2 | | Ecosystems | |
| MAT 1XX Mathematics | | 3 | 0 | 3 | EVT 175 | Watershed Management | 3 |
| Elective (G) | | | | | BIO 270 | Ecology | 5 |
| Semester 3 | | | | | English Comp | osition Elective | |
| LH 165 | Landscape Construction (T) | 2 | 3 | 3 | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| LH 135 | Herbaceous Plant Materials (T) | 2 | 3 | 3 | ENG 103 | English Composition 2: Writing about Literature | 3 |
| LH X9X | ` ' | 1 | 40 | 2 | ENG 104 | English Composition 2: Technical | 3 |
| Cooperative | | | | | | Communication | |
| Education | | | | | ENG 105 | English Composition 2: Business Communication | 3 |
| Elective 1: | | | | | Management/I | Marketing Elective | |
| Landscape Horticulture | | | | | MGT 101 | Principles of Management | 3 |
| (T) | | | | | MGT 105 | Human Resource Management | 3 |
| Semester 4 | | | | | MGT 120 | Entrepreneurship | 3 |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 | MGT 130 | Project Management | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 | MKT 101 | Principles of Marketing | 3 |
| LH 230 | Landscape Solutions to | 2 | 3 | 3 | MKT 105 | Marketing and Customer Relations | 3 |
| | Stormwater Management (T) | | | | MKT 130 | Professional Selling | 3 |
| LH 245 | Plants for Sustainable Landscapes | 2 | 3 | 3 | Mathematics E | | |
| | (T) | | | | MAT 105 | Quantitative Reasoning | 3 |
| Semester 5 | | | | | MAT 111 | Business Mathematics | 3 |
| LH 240 | Landscape Management (T) | 2 | 3 | 3 | MAT 115 | Pre-Statistics | 3 |
| LH 290 | Sustainable Landscape Design | 2 | 3 | 3 | MAT 120 | Technical Mathematics | 3 |
| XXX XXX | Capstone (T) | 3 | 0 | 3 | MAT 125 | Algebra and Trigonometry | 4 |
| Arts/ | | 3 | U | 3 | Elective (selec | es Elective or Social/Behavioral Science | |
| Humanities | | | | | • | lodule course from ART, LIT, MUS, PHI, REL, THE, | |
| Elective or Social/ | | | | | or COMM 130 | | |
| Behavioral Science | | | | | or, any Transfe PSY, SOC, or S | or Module course from ECO, GEO, HST, LBR, POL, SPN 101 | |
| Elective (G) | | | | | Cooperative E | ducation Electives (4 credit hours required) | |
| XXX XXX Management | N | 3 | 0 | 3 | LH 191 | Part-Time Cooperative Education 1: Landscape Horticulture | 1 |
| Marketing Elective (B) | - | | | | LH 192 | Part-Time Cooperative Education 2: Landscape Horticulture | 1 |

| LH 193 | Part-Time Cooperative Education 3: Landscape Horticulture | 1 |
|--------|---|---|
| LH 194 | Part-Time Cooperative Education 4: Landscape Horticulture | 1 |
| LH 291 | Full-Time Cooperative Education 1: Landscape Horticulture | 2 |
| LH 292 | Full-Time Cooperative Education 2: Landscape Horticulture | 2 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Sustainable Agriculture Management Certificate (AGRC)

| Semester 1 | | Lec | Lab C | redits |
|----------------|-----------------------------------|-----|-------|--------|
| AGR 100 | Introduction to Urban Agriculture | 2 | 3 | 3 |
| LH 120 | Soil Science and Plant Nutrition | 2 | 2 | 3 |
| AGR 150 | Fall Production | 0 | 6 | 3 |
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| Semester 2 | | | | |
| AGR 105 | Vegetable Crop Production | 2 | 3 | 3 |
| LH 110 | Horticulture Science | 2 | 3 | 3 |
| AGR 155 | Spring Production | 0 | 6 | 3 |
| MKT 1XX | | 3 | 0 | 3 |
| Marketing | | | | |
| Elective | | | | |
| Semester 3 | | | | |
| MGT 120 | Entrepreneurship | 3 | 0 | 3 |
| AGR 135 | Fruit and Nut Production | 2 | 3 | 3 |
| AGR 140 | Pest and Policy Management for | 2 | 3 | 3 |
| | Specialty Crops | | | |
| AGR 160 | Summer Production | 0 | 6 | 3 |
| Total Credits: | | 20 | 37 | 36 |

Electives

Marketing Elective

| MKT 105 | Marketing and Customer Relations | 3 |
|---------|----------------------------------|---|
| MKT 130 | Professional Selling | 3 |

Sustainable Horticulture (SH)

- SH graduates are prepared to enter the green industry workforce at the technician level or above.
- SH graduates complete a rigorous curriculum based on sound
 science.
- SH graduates are prepared to design, sell, and install landscapes.
- SH graduates are prepared to estimate and price proposals for landscape management services.

- SH graduates have a broad-based knowledge of woody and herbaceous plants including identification, culture, and potential issues with common landscape plants.
- SH graduates can communicate effectively through multiple means.
- SH graduates can recognize, evaluate, and solve problems in landscapes.
- SH graduates can identify and safely operate a variety of equipment and tools commonly used in the green industry.
- SH graduates can identify environmental issues on a site (e.g., storm water, pollinators, etc.), analyze alternatives, and synthesize creative solutions that perform multiple aesthetic, engineering, and environmental functions.

Faculty

Program Chair

Professor Samuel (Mark) Deacon, MS mark.deacon@cincinnatistate.edu

Advisor

Professor Heather Augustine, MS, LEED Green Associate heather.augustine@cincinnatistate.edu

Co-op Coordinator

Brian Hooten, MAOL brian.hooten@cincinnatistate.edu

Turfgrass Management (TURF) Turfgrass Management (TURF)

Turfgrass Management graduates commonly work for golf courses, athletic field complexes, or lawn care companies. Students complete foundation horticulture courses, and then take specialized turf management courses. Core business courses prepare students for leadership roles in local businesses and municipalities.

Cooperative education employment for Turfgrass Management majors usually is completed at local golf courses, athletic facilities, or lawn care companies.

The Turfgrass Management program is accredited by the National Association of Landscape Professionals (NALP).

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Turfgrass Management (TURF)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|------------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| LH 105 | Horticulture Occupations (B) | 1 | 1 | 1 |
| LH 120 | Soil Science and Plant Nutrition (| 2 | 2 | 3 |
| | T) | | | |
| LH 125 | Turfgrass Management (B) | 2 | 2 | 3 |
| LH 130 | Woody Plant Materials (T) | 1 | 5 | 3 |

| LH 140 | Landscape Operations (B) | 2 | 3 | 3 | LH X9X | 1 40 | 2 |
|--------------------------|---|---|----|---|--------------------------|---|-----|
| FYE 1XX | | 1 | 0 | 1 | Cooperative Education | | |
| First Year Experience | | | | | Elective 2: | | |
| Elective (B) | | | | | Landscape | | |
| Semester 2 | | | | | Horticulture | | |
| BUS 190 | Professional Practices (B) | 1 | 0 | 1 | (T) | | |
| LH 151 | Landscape Design 1 (T) | 2 | 3 | 3 | Total Credits: | 50 120 | 67 |
| LH 110 | Horticulture Science (G) | 2 | 3 | 3 | - 1 4. | | |
| ENG 10X | Tiornoditare Science (S) | 3 | 0 | 3 | Electives | | |
| English | | 3 | O | 3 | First Year Exp | erience Elective | |
| Composition | | | | | FYE 100 | College Survival Skills | 1 |
| Elective (G) | | | | | FYE 105 | College Success Strategies | 2 |
| XXX XXX | | 2 | 2 | 3 | FYE 110 | Community College Experience | 3 |
| Computer | | | | | Computer Elec | ctive | |
| Elective (T) | | | | | LH 155 | Computer-Aided Landscape Design | 3 |
| MAT 1XX Mathematics | | 3 | 0 | 3 | IM 111 | Computer Applications 1 | 3 |
| Elective (G) | | | | | IM 112 | Computer Applications 2 | 3 |
| Semester 3 | | | | | IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| LH 135 | Herbaceous Plant Materials (T) | 2 | 3 | 3 | English Comp | osition Elective | |
| LH 165 | Landscape Construction (T) | 2 | 3 | 3 | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| LH X9X | Landsape Concuración (1) | 1 | 40 | 2 | ENG 103 | English Composition 2: Writing about Literature | 3 |
| Cooperative | | · | 10 | _ | ENG 104 | English Composition 2: Technical | 3 |
| Education | | | | | ENO 405 | Communication | |
| Elective 1: Landscape | | | | | ENG 105 | English Composition 2: Business Communication | 1 3 |
| Horticulture | | | | | _ | Marketing Elective | 0 |
| (T) | | | | | MGT 101 | Principles of Management | 3 |
| Semester 4 | | | | | MGT 105 | Human Resource Management | 3 |
| ACC 101 | Financial Accounting (B) | 2 | 2 | 3 | MGT 120 | Entrepreneurship | 3 |
| LAW 101 | Business Law (B) | 3 | 0 | 3 | MGT 130 | Project Management | 3 |
| LH 160 | Irrigation Design, Installation, and | 2 | 3 | 3 | MKT 101 | Principles of Marketing | 3 |
| | Management (T) | | | | MKT 105 | Marketing and Customer Relations | 3 |
| XXX XXX | | 3 | 0 | 3 | MKT 130 | Professional Selling | 3 |
| Management | | | | | Mathematics E | | 0 |
| Marketing | | | | | MAT 105 | Quantitative Reasoning | 3 |
| Elective (B) | | | | | MAT 111 | Business Mathematics | 3 |
| Semester 5 | Turfarese Deets and Centrals (T) | 2 | 0 | 2 | MAT 115 | Pre-Statistics | 3 |
| LH 210 | Turfgrass Pests and Controls (T) | 2 | 2 | 3 | MAT 120 | Technical Mathematics | 3 |
| LH 240 | Landscape Management (T) Golf Course and Athletic Field | 2 | 3 | 3 | MAT 125 | Algebra and Trigonometry | 4 |
| LH 255 | Management (T) | 2 | 3 | 3 | Arts/Humaniti | es Elective or Social/Behavioral Science | |
| XXX XXX Arts/ | | 3 | 0 | 3 | | flodule course from ART, LIT, MUS, PHI, REL, THE, | |
| Humanities Elective | | | | | | er Module course from ECO, GEO, HST, LBR, POL, SPN 101 | |
| or Social/ | | | | | Cooperative E | ducation Electives (4 credit hours required) | |
| Behavioral Science | | | | | LH 191 | Part-Time Cooperative Education 1: Landscape Horticulture | 1 |
| Elective (G) Semester 6 | | | | | LH 192 | Part-Time Cooperative Education 2: Landscape Horticulture | 1 |
| | | | | | LH 193 | Part-Time Cooperative Education 3: Landscape Horticulture | 1 |
| | | | | | LH 194 | Part-Time Cooperative Education 4: Landscape | 1 |
| | | | | | | Horticulture | |

| LH 291 | Full-Time Cooperative Education 1: Landscape Horticulture | 2 |
|--------|---|---|
| LH 292 | Full-Time Cooperative Education 2: Landscape Horticulture | 2 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Turfgrass Management (TURF)

- TURF graduates are prepared to enter the green industry workforce at the technician level or above.
- TURF graduates complete a rigorous curriculum based on sound science.
- TURF graduates are prepared to design, sell, and install landscapes.
- TURF graduates are prepared to estimate and price proposals for landscape management services.
- TURF graduates have a broad-based knowledge of woody and herbaceous plants including identification, culture, and potential issues with common landscape plants.
- TURF graduates can communicate effectively through multiple
 means.
- TURF graduates can recognize, evaluate, and solve problems in landscapes.
- TURF graduates can identify and safely operate a variety of equipment and tools commonly used in the industry.
- TURF graduates can identify and analyze conditions of turf, identify specific problems, recommend control measures, and implement controls.

Faculty

Program Chair

Professor Samuel (Mark) Deacon, MS mark.deacon@cincinnatistate.edu

Advisor

Professor Heather Augustine, MS, LEED Green Associate heather.augustine@cincinnatistate.edu

Co-op Coordinator

Brian Hooten, MAOL brian.hooten@cincinnatistate.edu

Pre-Business Administration (PBA)

Pre-Business Administration (PBA)

The Pre-Business Administration program provides students with the academic foundation needed for transfer to a bachelor's

degree program with a business-related major, such as business administration, accounting, finance, management, or marketing.

Students earn an Associate of Arts degree and are well-prepared to begin their junior year in a bachelor's degree program at the four-year institution of their choice.

Students must consult with their advisor before choosing electives, to ensure that elective courses meet the requirements of the institution where the student will complete their bachelor's degree.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Pre-Business Administration (PBA)

| Semester 1 | | Lec | Lab Cı | edits |
|--|--|-----|--------|-------|
| ACC 101 | Financial Accounting | 2 | 2 | 3 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| LAW 101 | Business Law | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective | | 1 | 0 | 1 |
| XXX XXX Directed Elective 1 Semester 2 | | 3 | 0 | 3 |
| ACC 102 | Managarial Assoupting | 2 | 2 | 3 |
| BUS 190 | Managerial Accounting Professional Practices | 1 | 0 | 1 |
| ECO 105 | Principles of Microeconomics | 3 | 0 | 3 |
| ENG 10X | Findiples of Microeconomics | 3 | 0 | 3 |
| English Composition Elective | | 3 | U | 3 |
| MAT XXX Mathematics Elective | | 3 | 0 | 3 |
| XXX XXX Directed Elective 2 | | 3 | 0 | 3 |
| Semester 3 | | | | |
| PBA X9X Cooperative Education 1: Pre-Business Administration | | 1 | 40 | 2 |
| Semester 4 | | | | |
| MKT 101 | Principles of Marketing | 3 | 0 | 3 |
| IM XXX Computer Elective | | 3 | 2 | 3 |
| XXX XXX Arts/ Humanities Elective 1 | | 3 | 0 | 3 |

| XXX XXX Natural/ Physical Science | | 2 | 2 | 3 |
|---|------------------------------|----|----|----|
| Elective 1 XXX XXX Transfer Module Elective 1 | | 3 | 0 | 3 |
| Semester 5 | | | | |
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| ECO 110 | Principles of Macroeconomics | 3 | 0 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ Humanities Elective 2 | | | | |
| XXX XXX | | 2 | 2 | 3 |
| Natural/ Physical Science Elective 2 | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Transfer | | | | |
| Module | | | | |
| Elective 2 | | | | |
| Total Credits | : | 56 | 50 | 61 |

Electives - See Advisor before selecting electives

| First | Year | Experience | Flective |
|-------|------|------------|----------|

| FYE 100 | College Survival Skills | 1 |
|----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Mathematics El | ective | |
| MAT 131 | Statistics 1 | 3 |
| MAT 132 | Statistics 2 | 3 |
| MAT 151 | College Algebra | 4 |
| MAT 152 | Trigonometry | 4 |
| MAT 153 | Pre-Calculus | 6 |
| MAT 215 | Business Calculus | 6 |
| MAT 251 | Calculus 1 | 5 |
| MAT 252 | Calculus 2 | 5 |
| MAT 253 | Calculus 3 | 5 |
| Computer Elect | ive | |
| IM 111 | Computer Applications 1 | 3 |
| IM 112 | Computer Applications 2 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| IM 140 | Electronic Database Management: Microsoft Access | 3 |

| IM 200 | Information Systems for Managers 3 | | |
|----------------------------|--|---|--|
| Arts/Humanities Electives | | | |
| Any Transfer Moor COMM 130 | odule course from ART, LIT, MUS, PHI, REL, THE, | | |
| Natural/Physical | al Science Electives | | |
| Any Transfer Mo | odule course from BIO, CHE, EVS, PHY, PSC | | |
| Cooperative Ed | ducation Elective (2 credit hours required) | | |
| PBA 191 | Part-Time Cooperative Education 1: Pre- Business Administration | 1 | |
| PBA 192 | Part-Time Cooperative Education 2: Pre- Business Administration | 1 | |
| PBA 193 | Part-Time Cooperative Education 3: Pre- Business Administration | 1 | |
| PBA 194 | Part-Time Cooperative Education 4: Pre- Business Administration | 1 | |
| PBA 291 | Full-Time Cooperative Education 1: Pre- | 2 | |

Transfer Module Electives

Any Transfer Module course from ENG, COMM (except COMM 110), MAT, ART, MUS, THE, LIT, PHI, REL, GEO, HST, LBR, POL, ECO, PSY, SOC, BIO, CHE, EVS, PHY, PSC

Full-Time Cooperative Education 2: Pre-

2

Business Administration

Business Administration

Directed Electives

PBA 292

Any Transfer Module course from ENG, COMM, MAT, ART, MUS, THE, LIT, PHI, REL, GEO, HST, LBR, POL, ECO, PSY, SOC, BIO, CHE, EVS, PHY, PSC
ENG 131 Creative Writing: Poetry
FIN 100 Personal Finance

| ENG 131 | Creative Writing: Poetry | 3 |
|---------|--|---|
| FIN 100 | Personal Finance | 3 |
| FRN 101 | Elementary French 1 | 4 |
| FRN 102 | Elementary French 2 | 4 |
| FRN 201 | Intermediate French 1 | 4 |
| FRN 202 | Intermediate French 2 | 4 |
| ITP 101 | Beginning American Sign Language 1 | 3 |
| ITP 102 | Beginning American Sign Language 2 | 3 |
| ITP 201 | Intermediate American Sign Language 1 | 3 |
| ITP 202 | Intermediate American Sign Language 2 | 3 |
| LBR 105 | Introduction to Labor and Employee Relations | 3 |
| MGT 101 | Principles of Management | 3 |
| MGT 220 | Leadership | 3 |
| SPN 101 | Elementary Spanish 1 | 4 |
| SPN 102 | Elementary Spanish 2 | 4 |
| SPN 201 | Intermediate Spanish 1 | 4 |
| SPN 202 | Intermediate Spanish 2 | 4 |
| | | |

Pre-Business Administration (PBA)

- Prepare and use financial information about business organizations to support decision making.
- Manage business information using appropriate software.
- Demonstrate effective business communication skills.
- Demonstrate understanding of legal and ethical issues in a business environment.
- Identify, classify, and demonstrate management activities.
- Demonstrate knowledge of marketing theory and techniques.

- Apply economic reasoning to the analysis of selected contemporary economic problems.
- · Demonstrate employability skills in a business environment.

General Education Learning Outcomes (derived from the Ohio Transfer Module Learning Outcomes

- · Communicate effectively with diverse audiences.
- · Evaluate arguments in a logical fashion.
- Employ the methods of inquiry characteristic of the natural sciences, social sciences, and the arts and humanities.
- Acquire an understanding of our global and diverse culture and society.
- Compute and analyze quantitative data using mathematical and logical methods to solve problems.
- Exhibit self-awareness and self-management skills necessary to succeed in increasingly challenging academic environments.

Faculty

Program Chair

Margaret Clark, MBA, CFP margaret.clark@cincinnatistate.edu

Co-op Coordinator

Maya Franklin, MS maya.franklin@cincinnatistate.edu

Supply Chain Management (SCM & SCMC)

Supply Chain Management (SCM)

Students in the Supply Chain Management degree program gain the knowledge and skills needed to oversee interconnected businesses by coordinating activities among suppliers, manufacturing, warehousing operations, shipping, and customers. Students also develop understanding of processes for moving, tracking, and distributing raw or in-process materials as well as finished goods.

Students select elective courses from one of two tracks:

- The Operations track focuses on business decisions in Supply Chain Management.
- The Material Handling Technology track focuses on automation and technological advances in the industry.

Graduates earn an Associate of Applied Business degree and are prepared for entry-level employment in areas such as inventory management, material handling, manufacturing resource planning, warehousing, logistics, traffic and transportation, or procurement.

Graduates also are prepared to take the Level One Supply Chain Professional certification exam offered by the Council of Supply Chain Management Professionals.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Supply Chain Management Certificate (SCMC)

The Supply Chain Management Certificate prepares students for employment in several key areas of the supply chain field, including purchasing, warehousing, transportation, manufacturing, and order fulfillment.

Graduates of the certificate program are also prepared to take the Level One Supply Chain Professional certification exam offered by the Council of Supply Chain Management Professionals.

For more information, please contact the Business Technologies Division at (513) 569-1620.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Supply Chain Management (SCM)

| FYE 1XX 1 0 1 First Year | |
|--|---|
| First Year | |
| | |
| Experience | |
| Elective (B) | |
| XXX XXX 3 0 3 | |
| Computer Elective (B) | |
| XXX XXX 3 0 3 | |
| Track | |
| Elective 1 (B) | |
| MAT 1XX 3 0 3 | , |
| Mathematics | |
| Elective (G) | |
| CIT 105 OSHA 10 General Industry Safety 1 0 1 (T) | |
| SCM 105 Principles of Supply Chain 3 0 3 Management (B) | |
| Semester 2 | |
| ACC 101 Financial Accounting (B) 2 2 3 | , |
| BUS 190 Professional Practices (B) 1 0 1 | |
| XXX XXX 3 0 3 | , |
| Track | |
| Elective 2 (T) | |
| ENG 101 English Composition 1 (G) 3 0 3 | į |
| MGT 101 Principles of Management (B) 3 0 3 | , |
| SCM 110 Warehousing and Distribution (T) 2 2 3 | , |
| Semester 3 | |
| SCM X9X 1 40 2 | |
| Cooperative | |
| Education | |
| Elective 1: Supply Chain | |
| Management | |
| (T) | |
| Semester 4 | |

| ENG XXX English | | 3 | 0 | 3 |
|-------------------------------------|--|----|----|----|
| Elective (G) XXX XXX Track | | 0 | 3 | 3 |
| Elective 3 (T) | | | | |
| IT 150 | Logistics and Distribution Technology (T) | 2 | 2 | 3 |
| MGT 140 | Quality Management (T) | 3 | 0 | 3 |
| SCM 120 | Transportation Systems (T) | 3 | 0 | 3 |
| Semester 5 | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ Humanities | | | | |
| Elective (G) | | | | |
| XXX XXX Track | | 3 | 0 | 3 |
| Elective 4 (T) | | | | |
| SCM 205 | Inventory Management and | 3 | 0 | 3 |
| 3CW 205 | Control (T) | 3 | U | 3 |
| SCM 290 | Supply Chain Management Capstone (T) | 2 | 2 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Semester 6 | | | | |
| SCM X9X | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education Elective 2: | | | | |
| Supply Chain | | | | |
| Management | | | | |
| (T) | | | | |
| Total Credits: | | 55 | 91 | 64 |
| | | | | |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|-----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Computer Elect | tive | |
| IM 200 | Information Systems for Managers | 3 |
| IT 105 | Information Technology Concepts | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Mathematics El | ective | |
| MAT 115 | Pre-Statistics | 3 |
| MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
| MAT 125 | Algebra and Trigonometry | 4 |
| MAT 131 | Statistics 1 | 3 |
| MAT 151 | College Algebra | 4 |
| Arts/Humanitie | s Elective | |
| | | |

| Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130 | | 3 |
|---|--|---|
| Social/Behavior | al Science Elective | |
| Any Transfer Mo PSY, SOC | dule course from ECO, GEO, HST, LBR, POL, | 3 |
| Cooperative Ed | ucation Electives (4 credit hours required) | |
| SCM 191 | Part-Time Cooperative Education 1: Supply Chain Management | 1 |
| SCM 192 | Part-Time Cooperative Education 2: Supply Chain Management | 1 |
| SCM 193 | Part-Time Cooperative Education 3: Supply Chain Management | 1 |
| SCM 194 | Part-Time Cooperative Education 4: Supply Chain Management | 1 |
| SCM 291 | Full-Time Cooperative Education 1: Supply | 2 |

Track Electives (Meet with an advisor to choose a track and corresponding electives)

Full-Time Cooperative Education 2: Supply

Chain Management

Chain Management

SCM 292

| corresponding | Cicotives | |
|--------------------|---|---|
| Operations Tra | ck Electives | |
| Must take all thre | ee courses listed below | |
| LAW 101 | Business Law | 3 |
| SCM 115 | Manufacturing Planning in Supply Chain Management | 3 |
| SCM 210 | Procurement Management | 3 |
| Must take one of | f the following courses: | |
| ACC 102 | Managerial Accounting | 3 |
| CET 115 | Architectural Drafting and Computer Aided Design | 4 |
| EMET 210 | Energy Efficiency and Audits | 3 |
| EVT 187 | Materials Transportation Safety and Security | 2 |
| MGT 130 | Project Management | 3 |
| Material Handli | ng Technology Track Electives | |
| EET 101 | Electronic Fundamentals 1 | 3 |
| EMET 150 | Introduction to Controls and Robotics | 2 |
| MHT 100 | Introduction to Materials Handling and Logistics Technology | 3 |
| MHT 200 | Automation Systems | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Supply Chain Management Certificate (SCMC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|----------------------------|-----|--------|-------|
| SCM 105 | Principles of Supply Chain | 3 | 0 | 3 |
| | Management | | | |

| SCM 110 | Warehousing and Distribution | 2 | 2 | 3 |
|----------------------------------|---|----|---|----|
| Semester 2 | | | | |
| SCM 120 | Transportation Systems | 3 | 0 | 3 |
| SCM 115 | Manufacturing Planning in Supply Chain Management | 3 | 0 | 3 |
| SCM 205 | Inventory Management and Control | 3 | 0 | 3 |
| Semester 3 | | | | |
| SCM 210 | Procurement Management | 3 | 0 | 3 |
| XXX XXX Technical Elective | | 3 | 0 | 3 |
| Total Credits | S: | 20 | 2 | 21 |

Electives

Technical Elective

| IT 150 | Logistics and Distribution Technology | 3 |
|---------|---------------------------------------|---|
| MGT 140 | Quality Management | 3 |
| SCM 290 | Supply Chain Management Capstone * | 3 |
| CDL 110 | Commercial Driver License Training | 5 |

* Students cannot take SCM 290 and SCM 210 in the same semester.

Supply Chain Management (SCM)

- Demonstrate the major functions of supply chain management: planning, acquisition, flow, and distribution of goods and services.
- · Differentiate logistics and supply chain management.
- Describe alternative ways to organize for supply chain management.
- · Describe methods of inventory planning.
- · Utilize critical thinking in addressing issues.
- Explain how technology has and continues to change logistics and supply chain management.
- Compare modes of transportation and related policies.
- · Explain purchasing processes, policies, and procedures.
- Describe warehouse processes, systems, and performance measures.
- Analyze legal and ethical issues from a global awareness perspective within the supply chain management industry.
- Identify improvement opportunities throughout the operations value stream (reduction in operational waste) and develop and implement a plan for acting on these opportunities.
- Use computer simulation to model a supply chain within a cost effective inventory, facility, location, and transportation framework.
- Discuss collaboration and communication skills and leadership styles.
- Demonstrate professionalism specific to the supply chain management industry.

Faculty

Program Chair

Brian Jaynes, MSEd brian.jaynes@cincinnatistate.edu

Co-op Coordinator

Brian Hooten, MAOL brian.hooten@cincinnatistate.edu

Center for Innovative Technologies

Division Office: Main Building Room 210, Clifton Campus

Division Phone Number: (513) 569-1743

The Center for Innovative Technologies encompasses Cincinnati State's academic programs and majors in engineering, multimedia, and information technologies. The Center offers a number of associate's degree and certificate programs that prepare students for a career in a variety of technical fields or a possible pathway to a bachelor's degree. Cincinnati State has been recognized nationally as one of the top schools in Ohio for engineering-related associate's degrees.

The academic programs within the Center for Innovative Technologies are organized into the following departments:

- · Aviation Maintenance Technologies
- · Chemical and Environmental Engineering Technologies
- Civil Engineering Technologies
- Computer Programing and Database Management
- Electrical Engineering Technologies
- Electro-Mechanical Engineering Technologies
- Mechanical Engineering Technologies
- Multimedia Information Design
- · Networking and Support Systems
- Pre-Engineering
- Welding

All of the associate's degree programs offered by the Center for Innovative Technologies feature:

- Faculty with professional experience in their areas of instruction, who also are advisors to students throughout their college experience.
- Technical coursework that blends basic theory (including skills in mathematics and science, as applicable) with extensive hands-on laboratory practice.
- Foundation academic skills courses in written communication; arts and humanities; and natural, behavioral, or social sciences.
- Ease of transfer to a number of bachelor's degree programs.
- Cooperative education work experience. The close tie with industry created by the cooperative education component ensures all programs remain technically current, and provides students with practical workplace knowledge and experience prior to graduation.

The mission of the Engineering Technologies programs within the Center for Innovative Technologies is to serve students by promoting excellence in engineering technologies through professional instruction, cooperative education, and advising.

 The Civil Engineering Technology program has earned accreditation through the Engineering Technology Accreditation Commission of ABET, 415 N. Charles St., Baltimore, MD 21201-4012. Phone (410) 347-7700. The Civil Engineering Technology Construction Management Major is also accredited by the American Council for Construction Education (ACCE), 1717 North Loop 1604 East, Suite 320, San Antonio, TX 78232-1570. Phone (210) 495-6161.

 The Aviation Maintenance Technology associate's degree program and related certificate programs are approved by the Federal Aviation Administration, along with related certificate programs.
 Technical coursework is offered exclusively at the Cincinnati State West campus in Harrison, Ohio.

The Center for Innovative Technologies collaborates with the College's Workforce Development Center in offering the Applied Technology Specialist degree, which allows students with military experience, Career Center certificates, or technical work history to earn college credit for past training or experience.

The Center for Innovative Technologies also offers several certificate programs that address specific technical skills. Certificates have fewer course requirements than an associate's degree.

Cooperative Education

The cooperative education experience is a cornerstone of the educational process in the Center for Innovative Technologies.

All students enrolled in associate's degree programs are required to participate in cooperative education. Most students complete this requirement through on-site cooperative education assignments. Students may earn credit through full-time or part-time work assignments, depending on job availability.

In a few academic programs where competition for entry-level assignments is particularly strong, students may have opportunities to meet requirements for experiential learning by participating in unpaid internships.

Students may also be able to substitute appropriate academic courses or previous related work experience for cooperative education employment, with prior approval from the appropriate co-op coordinator.

For eligibility requirements, co-op registration policies, and other issues related to cooperative education, please refer to the Cooperative Education Program (p. 203) section of this catalog.

College Orientation

To set the stage for success in the college experience, degree-seeking students are required to complete a college First Year Experience (FYE) course within the first 12 credit hours taken at Cincinnati State.

Entrance Competencies

In order to ensure a high degree of success in academic studies in engineering and information technologies, entering students must meet established academic levels in mathematics, communication skills, and reading comprehension. To aid in determining these levels, entering students are required to take the college placement test. If testing and previous academic background indicate that a student has not reached the necessary preparatory level, a divisional advisor will identify a group of classes to help the student reach needed levels. Preparatory classes are available year-round.

Students entering most academic programs of the Center for Innovative Technologies must demonstrate competence with commonly-used software applications and with basic internet operations. Students may be asked to demonstrate these competencies through standardized skills assessment tests or by completing prerequisite courses if necessary. Program advisors assist students in determining whether they meet minimum competencies.

Full-time students who follow the published sequence of courses can complete associate's degree programs in two years.

Transfer to Baccalaureate Programs

The Center for Innovative Technologies offers a Pre-Engineering program. Graduates earn an Associate of Science degree and are prepared to enter a baccalaureate program in an engineering science field

Many of the Associate of Applied Science degree programs offered by the Center for Innovative Technologies have established articulation agreements to ease transfer of credits earned at Cincinnati State to baccalaureate programs at various colleges and universities. Agreements are in place with the University of Cincinnati, Wright State University, Embry-Riddle Aeronautical University, Miami University, Northern Kentucky University, the University of Toledo, and Wilmington College, among others. These agreements vary in content. Interested students should meet with their program advisor as early as possible to review the details of possible transfer arrangements.

Transfer Module

The Ohio Department of Higher Education developed the Ohio Transfer Module to facilitate transfer of credits from one Ohio public college or university to another. The transfer module contains 36 to 40 semester hours of course credits in the areas of communication, mathematics, arts and humanities, social and behavioral sciences, and natural and physical sciences. A transfer module completed at one college or university automatically meets the requirements for the transfer module at another college or university once the student is admitted. For additional information, see the State of Ohio Policy for Institutional Transfer (p. 174) and the Transfer Module (p. 161) sections of this catalog.

Associate's degree programs in the Center for Innovative Technologies contain in their curricula many of the required courses for the Cincinnati State Transfer Module. The Pre-Engineering degree contains the entire transfer module. Students who wish to complete the transfer module should schedule the additional courses at their convenience.

Students who transfer to an Ohio public university for baccalaureate degrees will find that the Cincinnati State Associate of Applied Science degree, combined with a transfer module showing grades of C or higher, receives preferential consideration at the receiving institution. Additionally, transfer is streamlined for graduates of some Center for Innovative Technologies programs by the articulation agreements described above.

Applied Technology Specialist (ATSP)

Applied Technology Specialist (ATSP)

In collaboration with Cincinnati State's Workforce Development Center, the Center for Innovative Technologies offers the Applied Technology Specialist degree. Students who complete all program requirements earn an Associate of Technical Studies degree.

The Applied Technology Specialist degree is designed for individuals with significant experience and past training in technical fields, such as those in the trades and military veterans. Students may receive up to 27 credit hours, nearly half of the degree requirement, for related education, specialized training, or past work experience.

Students must meet with their advisor to determine how much credit will be awarded for past education or experience, and to select courses needed to complete the degree, including elective courses from engineering technologies or information technologies fields.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Applied Technology Specialist (ATSP)

| Semester 1 | | Lec | Lab Cı | redits |
|-------------------------------------|---|------|--------|--------|
| CIT 150 | Applied Technology Studies: Advanced Standing (T) | 1-27 | 0 | 27 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE XXX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective (B) | | | | |
| MAT XXX | | 2 | 2 | 3 |
| Mathematics | | 2 | ۷ | 3 |
| Elective (G) | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Humanities | | | | |
| Elective (G) | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Business Elective 1 (B) | | | | |
| XXX XXX | • | 2 | 2 | 2 |
| Computer | | 2 | ۷ | 2 |
| Skills | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| XXX XXX | | 2 | 2 | 3 |
| Business | | | | |
| Elective 2 (B) | | | | |
| XXX XXX Social | | 3 | 0 | 3 |
| Science | | | | |
| Elective (G) | | | | |
| | | | | |

| XXX XXX Engineering | 2 | 2 | 3 |
|------------------------------------|-------|----|----|
| Technology Elective 1 (B) | | | |
| XXX XXX | 2 | 2 | 3 |
| Engineering | | | |
| Technology Elective 2 (T) | | | |
| ENG 10X | 3 | 0 | 3 |
| English | Ü | Ü | Ü |
| Composition | | | |
| Elective (G) | | | |
| Total Credits: | 30-56 | 10 | 60 |

Electives

| FYE 100 | College Survival Skills | 1 |
|-----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics Ele | ective | |
| MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
| MAT 125 | Algebra and Trigonometry | 4 |
| MAT 131 | Statistics 1 | 3 |
| MAT 151 | College Algebra | 4 |
| MAT 251 | Calculus 1 | 5 |
| Humanities Elec | ctive | 3 |
| Any ART, CULT, | FRN, LIT, MUS, PHI, REL, SPN, THE | |
| COMM 130 | Introduction to Film Studies | 3 |
| Business Electi | ves | |
| ACC 101 | Financial Accounting | 3 |
| MGT 101 | Principles of Management | 3 |
| MGT 125 | Business Ethics | 3 |
| MGT 130 | Project Management | 3 |
| MGT 140 | Quality Management | 3 |
| MKT 105 | Marketing and Customer Relations | 3 |
| MKT 110 | Sales and Customer Relations | 3 |
| Computer Skills | Elective | |
| IM 111 | Computer Applications 1 | 3 |
| IM 112 | Computer Applications 2 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel | 3 |
| IM 130 | Electronic Word Processing: Microsoft Word | 3 |
| IM 140 | Electronic Database Management: Microsoft Access | 3 |
| IM 150 | Electronic Presentations: Microsoft PowerPoint | 3 |
| IM 170 | Electronic Project Management: Microsoft Project | 3 |
| BMT 151 | Biomedical Instrumentation 1 | 4 |
| CET 100 | Introduction to Civil Engineering Technology | 3 |
| EMET 140 | Electro-Mechanical Engineering Technology Foundations | 2 |
| EVS 110 | Environmental Science: Conservation and Cleanup | 4 |
| MET 100 | Introduction to Mechanical Engineering Technology | 2 |
| | | |

ENG 105

| Social Science | es Elective | 3 |
|------------------------------|---|---|
| Any CRJ, ECO | , GEO, HST, LBR, POL, PSY, SOC | |
| Engineering T | echnology Electives ¹ | 6 |
| Any AMT, BMT MET, NETC, P | , CET, EET, EMET, CMT, CSA, EVT, EVS, IT, SET, SET | |
| English Comp | osition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |

English Composition 2: Business Communication 3

0 - -!-! 0 -!--- Fl---!!---

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Applied Technology Specialist (ATSP)

- The student will be able to communicate as an individual.
- · The student will be able to apply oral skills
- The student will be able to apply written skills
- The student will demonstrate computer skills
- The student will demonstrate mathematical skills
- The student will demonstrate an ability to complete a Humanities course
- The student will demonstrate an ability to complete a Social Science course
- The student will demonstrate an ability to complete a Business course

Faculty

Program Chair/Advisor

Professor Lawrence (Larry) Feist, BS lawrence.feist@cincinnatistate.edu

Aviation Maintenance Technologies

The Aviation Maintenance Technologies Department at Cincinnati State offers a Federal Aviation Administration (FAA) approved associate's degree program in Aviation Maintenance Technology, as well as three certificate programs:

- Aviation Mechanics Airframe Certificate
- · Aviation Mechanics Powerplant Certificate
- · Avionics Certificate

Each program prepares graduates for a career maintaining and servicing aircraft components and systems.

All technical courses are conducted at the Cincinnati State airport facility, located on the Cincinnati State West Campus in Harrison, Ohio. Some non-technical courses are offered at the West Campus, or may be completed on the Clifton Campus or, in some cases, through online instruction.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Aviation Maintenance Technology (AMT, AVAC, & AVPC)

Aviation Maintenance Technology (AMT)

The Aviation Maintenance Technology program provides students with the skills needed to keep aircraft operating safely and efficiently by servicing, repairing, and overhauling aircraft components and systems. Coursework covers every system of today's aircraft.

Graduates of the program earn an Associate of Applied Science degree and are prepared to take the FAA licensing tests for Airframe mechanic and Powerplant mechanic.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Aviation Mechanics Airframe Certificate (AVAC)

The Aviation Mechanics Airframe Certificate includes the study of aircraft structures and hydraulic, electrical, and landing gear systems. Lab experiences include aircraft inspection, troubleshooting, and repair.

Following successful completion of the Airframe Certificate requirements, students may take Federal Aviation Administration (FAA) licensing tests. Certification requirements are subject to current FAA requirements and may change without notice.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Aviation Mechanics Powerplant Certificate (AVPC)

The Aviation Mechanics Powerplant Certificate includes the study of all types of aircraft engines (small and large piston, and jet), along with the study of engine systems and propellers. Lab experiences include inspection, troubleshooting, and repair of aircraft engines.

Following successful completion of the certificate, students may take Federal Aviation Administration (FAA) licensing tests. Certification

Program Chair consent required

requirements are subject to current FAA regulations and may change without notice.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Aviation Maintenance Technology (AMT)

| Semester 1 | | Lec | Lab Cı | edits |
|---|---|-----|--------|-------|
| AMT 100 | Aviation Standard Practices (B) | 4 | 6 | 6 |
| AMT 105 | Aircraft Orientation (B) | 2 | 5 | 4 |
| MAT 121 | Technical Algebra and Geometry with Statistics (G) | 2 | 2 | 3 |
| AMT 110 | Aircraft Electricity (B) | 3 | 3 | 4 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| AMT 115 | Aircraft Weight and Balance (B) | 3 | 3 | 4 |
| Semester 2 | | | | |
| AMT 135 | Aircraft Landing Gear Systems (T) | 3 | 5 | 5 |
| AMT 140 | Airframe Electrical Systems (T) | 4 | 4 | 6 |
| PHY 115 | Aviation Maintenance Physics (G) | 3 | 3 | 4 |
| AMT 120 | Aircraft Non-Metal Structures (T) | 3 | 4 | 5 |
| AMT 130 | Aircraft Welding Processes (T) | 2 | 2 | 3 |
| Semester 3 | | | | |
| AMT 125 | Aircraft Metal Structures (T) | 3 | 5 | 5 |
| AMT 145 | Airframe Electronic Systems (T) | 2 | 1 | 2 |
| AMT 150 | Airframe Systems (T) | 3 | 3 | 4 |
| AMT 155 | Airframe Assembly and Rigging (T) | 3 | 4 | 5 |
| AMT 160 | Airframe Inspection (T) | 1 | 3 | 2 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| Semester 4 | | | | |
| AMT 191 | Part-Time Cooperative Education 1: Aviation Maintenance Technology (T) | 1 | 20 | 1 |
| ENG 104 | English Composition 2: Technical Communication (G) | 3 | 0 | 3 |
| AMT 201 | Powerplant Maintenance 1 (T) | 4 | 6 | 6 |
| AMT 215 | Aircraft Propellers (T) | 3 | 3 | 4 |
| Semester 5 | | | | |
| AMT 192 | Part-Time Cooperative Education 2: Aviation Maintenance Technology (T) | 1 | 20 | 1 |
| AMT 202 | Powerplant Maintenance 2 (T) | 4 | 6 | 6 |
| AMT 205 | Starting and Ignition Systems (T) | 3 | 4 | 5 |
| Semester 6 | | | | |
| AMT 193 | Part-Time Cooperative Education 3: Aviation Maintenance Technology (T) | 1 | 20 | 1 |
| AMT 203 | Powerplant Maintenance 3 (T) | 4 | 6 | 6 |

| AMT 210 | Engine Fuel and Lubrication | 4 | 6 | 6 |
|--------------|-----------------------------|----|-----|-----|
| | Systems (T) | | | |
| PHI 110 | Ethics (G) | 3 | 0 | 3 |
| Total Credit | ts: | 76 | 144 | 108 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Aviation Mechanics Airframe Certificate (AVAC)

| Semester 1 | | Lec | Lab C | redits |
|---------------|--|-----|-------|--------|
| AMT 100 | Aviation Standard Practices | 4 | 6 | 6 |
| AMT 105 | Aircraft Orientation | 2 | 5 | 4 |
| AMT 110 | Aircraft Electricity | 3 | 3 | 4 |
| AMT 115 | Aircraft Weight and Balance | 3 | 3 | 4 |
| MAT 121 | Technical Algebra and Geometry with Statistics | 2 | 2 | 3 |
| Semester 2 | | | | |
| AMT 120 | Aircraft Non-Metal Structures | 3 | 4 | 5 |
| AMT 130 | Aircraft Welding Processes | 2 | 2 | 3 |
| AMT 135 | Aircraft Landing Gear Systems | 3 | 5 | 5 |
| AMT 140 | Airframe Electrical Systems | 4 | 4 | 6 |
| PHY 115 | Aviation Maintenance Physics | 3 | 3 | 4 |
| Semester 3 | | | | |
| AMT 125 | Aircraft Metal Structures | 3 | 5 | 5 |
| AMT 145 | Airframe Electronic Systems | 2 | 1 | 2 |
| AMT 150 | Airframe Systems | 3 | 3 | 4 |
| AMT 155 | Airframe Assembly and Rigging | 3 | 4 | 5 |
| AMT 160 | Airframe Inspection | 1 | 3 | 2 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| Total Credits | : | 44 | 53 | 65 |

Aviation Mechanics Powerplant Certificate (AVPC)

| Semester 1 | | Lec | Lab Cı | edits |
|------------|-----------------------------|-----|--------|-------|
| AMT 100 | Aviation Standard Practices | 4 | 6 | 6 |
| AMT 105 | Aircraft Orientation | 2 | 5 | 4 |
| AMT 110 | Aircraft Electricity | 3 | 3 | 4 |
| AMT 115 | Aircraft Weight and Balance | 3 | 3 | 4 |

| MAT 121 | Technical Algebra and Geometry with Statistics | 2 | 2 | 3 |
|---------------|--|----|----|----|
| Semester 2 | | | | |
| AMT 201 | Powerplant Maintenance 1 | 4 | 6 | 6 |
| AMT 215 | Aircraft Propellers | 3 | 3 | 4 |
| PHY 115 | Aviation Maintenance Physics | 3 | 3 | 4 |
| Semester 3 | | | | |
| AMT 202 | Powerplant Maintenance 2 | 4 | 6 | 6 |
| AMT 205 | Starting and Ignition Systems | 3 | 4 | 5 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| Semester 4 | | | | |
| AMT 203 | Powerplant Maintenance 3 | 4 | 6 | 6 |
| AMT 210 | Engine Fuel and Lubrication | 4 | 6 | 6 |
| | Systems | | | |
| Total Credits | S: | 42 | 53 | 61 |

Aviation Maintenance Technology (AMT)

- Identify, inspect, repair, and fabricate fluid lines and fittings including rigid and flexible fluid and pneumatic system components.
- Identify, inspect, install, torque, and safety-check aircraft hardware.
- Identify various types of corrosion on aircraft structure, and use proper cleaning and treatment techniques.
- Read, interpret, and analyze aircraft technical data, engineering drawings, and sketch and record repair schemes for aircraft.
- Perform ground operations and servicing of aircraft including taxiing, towing, marshaling, tie-down, engine run, and fuel and oil servicing.
- Understand mechanic privileges and limitations in accordance with Federal Aviation Regulations.
- Review aerodynamics and the application theory and concepts associated with the physics of aircraft flight.
- Understand and demonstrate concepts of electricity including troubleshooting faults and electrical installations.
- Understand and complete FAA required maintenance forms and records for aircraft maintenance.
- Understand concepts and techniques related to aircraft weight and balance, and perform weight and balance calculations and documentation.
- Utilize technical applications of algebra, geometry, and statistical analysis as necessary for employer requirements.
- Inspect, maintain, and repair metallic and non-metallic aircraft primary, secondary, and tertiary structural assemblies.
- Inspect, maintain, and repair landing gear, hydraulic and pneumatic systems, fuel systems, HVAC systems, electrical systems, fire and smoke protection systems, auxiliary power units, and oxygen systems.
- Inspect, maintain, and repair aircraft reciprocating engines, propellers, and aircraft turbine engines.

Faculty

Program Chair/Advisor

Jeff Wright, MS, FAA A&P, DME jeffrey.wright@cincinnatistate.edu

Co-op Coordinator

Professor Kimberly Richards, PhD kimberly.richards@cincinatistate.edu

Avionics Certificate (AVONC)

Avionics Certificate (AVONC)

The Avionics Certificate provides advanced skills in aviation electronics for students who are FAA-certified aviation mechanics.

Students who complete the certificate successfully are able to troubleshoot and repair various systems in a flight-line environment, including onboard computers, automatic pilot, instrument navigation and communication equipment, and powerplant electronic control systems.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Avionics Certificate (AVONC)

| Semester 1 | | Lec | Lab C | redits |
|----------------------|--|-----|-------|--------|
| AMT 100 | Aviation Standard Practices | 4 | 6 | 6 |
| AMT 105 | Aircraft Orientation | 2 | 5 | 4 |
| AMT 110 | Aircraft Electricity | 3 | 3 | 4 |
| AMT 115 | Aircraft Weight and Balance | 3 | 3 | 4 |
| MAT 121 | Technical Algebra and Geometry with Statistics | 2 | 2 | 3 |
| Semester 2 | | | | |
| AMT 140 | Airframe Electrical Systems | 4 | 4 | 6 |
| AMT 150 | Airframe Systems | 3 | 3 | 4 |
| AMT 155 | Airframe Assembly and Rigging | 3 | 4 | 5 |
| PHY 115 | Aviation Maintenance Physics | 3 | 3 | 4 |
| Semester 3 | | | | |
| AMT 271 | Avionics 1 | 3 | 2 | 4 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| Semester 4 | | | | |
| AMT 272 | Avionics 2 | 3 | 2 | 4 |
| Total Credits | : | 36 | 37 | 51 |

Faculty

Program Chair/Advisor

Jeff Wright, MS, FAA A&P, DME jeffrey.wright@cincinnatistate.edu

Co-op Coordinator

Professor Kimberly Richards, PhD kimberly.richards@cincinnatistate.edu

Chemical and Environmental Engineering Technologies

Chemical Technology is a career field that uses sophisticated chemical/biochemical methods and cutting-edge instrumentation to analyze chemical and pharmaceutical substances and evaluate their properties.

- The Chemical Technology associate's degree (CMT) program
 prepares students to become laboratory technicians, research
 associates, or process chemists in high-tech research and
 development or quality control laboratories, academic institutions,
 government agencies, and chemical manufacturing facilities.
- The Chemical Technology Operator Certificate (CMTOC)
 provides technical skills for students seeking positions in a variety
 of process technology industries.

Environmental Engineering Technology is a career field that applies principles of math, science, technology, engineering, and law to protect the environment, promote conservation of natural resources, and ensure the health and safety of workers and the community.

Environmental issues affect the operations of many chemical and manufacturing industries, and play a role in agriculture, transportation, defense, energy, construction, and many other commercial enterprises. Environmental technologies also factor into the protection of parks and forests, nature preserves, and recreational venues.

- The Environmental Engineering Technologies associate's degree program (EVT) also offers two majors: Stormwater Management (EVTS), and Water and Wastewater (EVTW). All courses, except cooperative education, meet Ohio Environmental Protection Agency requirements for license renewal (U.S. EPA External Provider).
- The Environmental Safety and Security Certificate (EVTSC) develop skills related to disaster preparedness, utilities safety and security, transportation safety and security, law enforcement, and research.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Chemical Technology and Chemical Technology Operator Certificate (CMT & CMTOC)

Chemical Technology (CMT)

Chemical technicians use sophisticated chemical/biochemical methods and cutting-edge instrumentation to analyze chemical and pharmaceutical substances and evaluate their properties.

The Chemical Technology degree program prepares students to become laboratory technicians or research associates in high-tech research and development or quality control laboratories, academic institutions, and government facilities. Graduates often are employed in chemical manufacturing; polymer/plastic labs; or food/beverage, pharmaceutical, or environmental industries and organizations.

Graduates of the Chemical Technology program earn an Associate of Applied Science degree, and many continue their education in

a bachelor's degree program in chemistry, biology/biotechnology, chemical engineering, or a pre-professional degree such as pre-pharmacy, pre-medicine, pre-dental, or pre-veterinary medicine.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Chemical Technology Operator Certificate (CMTOC)

The Chemical Technology Operator Certificate prepares students for positions in process technology industries, including chemical blending, processing, and manufacturing; food/beverages; pharmaceuticals; bioscience; and petrochemicals.

Students gain technical skills needed to manage basic control of systems and devices to monitor levels, temperatures, pressures, and transfer of products. Students also learn basic operation of pumps, valves, and vessels, as well as safety and quality standards.

Students who earn the certificate may continue their education in the Chemical Technology associate's degree program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Chemical Technology (CMT)

| Semester 1 | | Lec | Lab Cı | edits |
|--|--|-----|--------|-------|
| CMT 111 | Chemical Technology 1 (T) | 0 | 3 | 1 |
| CHE 121 & CHE 131 | General Chemistry 1 and General Chemistry 1 Lab (G) | 4 | 3 | 5 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
| XXX XXX Arts/ Humanities or Social/ Behavioral Sciences Elective (G) | | 3 | 0 | 3 |
| Semester 2 | | | | |
| CMT 112 | Chemical Technology 2 (T) | 0 | 3 | 1 |
| CHE 111 | Bio-Organic Chemistry (B) | 3 | 3 | 4 |
| CHE 122 & CHE 132 | General Chemistry 2 and General Chemistry 2 Lab (B) | 4 | 3 | 5 |

| MAT XXX Mathematics Elective 2 (B) | | 3 | 2 | 4 |
|---|---|----|-----|----|
| Semester 3 | | | | |
| CMT 291 | Full-Time Cooperative Education 1: Chemical Technology (T) | 1 | 40 | 2 |
| Semester 4 | | | | |
| CMT 220 | Analytical Chemistry (T) | 3 | 3 | 4 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English Composition | | | | |
| Elective (G) | | | | |
| XXX XXX | | 2 | 3 | 3 |
| Technical | | | | |
| Elective 1 (T) | | | _ | |
| XXX XXX | | 3 | 3 | 4 |
| Science Elective 1 (T) | | | | |
| Semester 5 | | | | |
| CMT 230 | Chamical Instrumental Analysis (| 2 | 2 | 4 |
| CIVIT 230 | Chemical Instrumental Analysis (T) | 3 | 3 | 4 |
| CMT 285 | Chemical Research (T) | 1 | 0 | 1 |
| XXX XXX | | 3 | 3 | 4 |
| Science | | | | |
| Elective 2 (T) | | | | |
| XXX XXX | | 1 | 2 | 2 |
| Technical | | | | |
| Elective 2 (T) | | | | |
| XXX XXX | | 1 | 2 | 2 |
| Technical | | | | |
| Elective 3 (T) | | | | |
| Semester 6 | | | | _ |
| CMT 292 | Full-Time Cooperative Education 2: Chemical Technology (T) | 1 | 40 | 2 |
| Total Credits: | | 49 | 118 | 65 |

Electives

FYE 100

Elective

First Year Experience Elective

| FYE 105 | College Success Strategies | 2 |
|----------------------|---|---|
| FYE 110 | Community College Experience | 3 |
| Mathematics E | lectives | 8 |
| Take one of the | following series: | |
| MAT 125 & MAT 126 | Algebra and Trigonometry and Functions and Calculus * | |
| Or | | |
| MAT 151 & MAT 152 | College Algebra and Trigonometry | |
| Or | | |
| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 | |

College Survival Skills

Arts/Humanities Elective or Social/Behavioral Science

Any ART, CULT, FRN, LIT, MUS, PHI, REL, SPN, THE

| or, Any CRJ, EC | O, GEO, HST, POL, PSY, SOC | 3 |
|--------------------------------------|---|---|
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Technical Elect | ives | |
| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab | 5 |
| CHE 202 & CHE 212 | Organic Chemistry 2 and Organic Chemistry 2 Lab | 5 |
| MAT 131 | Statistics 1 | 3 |
| MAT 132 | Statistics 2 | 3 |
| MAT 253 | Calculus 3 | 5 |
| or, Any of the fol elective: | lowing courses, if not used as Mathematics | |
| MAT 251 | Calculus 1 | 5 |
| MAT 252 | Calculus 2 | 5 |
| or, Any BIO or P Science Elective | HY listed in Science Electives, if not used as | |
| or, Any EVT, CE | T, EET, EMET, MET, PSET, SET | |
| Science Electiv | es | 8 |
| Select one of the | e following series: | |
| BIO 131 & BIO 132 | Biology 1 and Biology 2 | |
| PHY 151 & PHY 152 | Physics 1: Algebra and Trigonometry-Based and Physics 2: Algebra and Trigonometry-Based | |
| PHY 201 & PHY 202 | Physics 1: Calculus-Based and Physics 2: Calculus-Based | |
| or, Any two of the | e following courses: | |
| EVS 110 | Environmental Science: Conservation and Cleanup | |
| EVS 120 | Environmental Geology | |
| EVS 130 | Environmental Science: Ecology and | |

Students choosing this series must take MAT 126 prior to or concurrently with CHE 122.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

Ecosystems

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Chemical Technology Operator Certificate (CMTOC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|-----------------------|-----|--------|-------|
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| CMT 171 | Chemical Operator 1 | 3 | 2 | 4 |

| CMT 111 | Chemical Technology 1 | 0 | 3 | 1 |
|---------------|--|----|----|----|
| MAT 120 | Technical Mathematics | 2 | 2 | 3 |
| CHE 100 | Basic Chemistry | 2 | 2 | 3 |
| Semester 2 | | | | |
| ENG 104 | English Composition 2: Technical Communication | 3 | 0 | 3 |
| CMT 112 | Chemical Technology 2 | 0 | 3 | 1 |
| CMT 172 | Chemical Operator 2 | 3 | 2 | 4 |
| EVT 115 | OSHA 40-Hour Course | 2 | 2 | 3 |
| EVT 187 | Materials Transportation Safety and Security | 1 | 2 | 2 |
| EVT 160 | Solid and Hazardous Waste Management | 2 | 3 | 3 |
| Total Credits | : | 21 | 21 | 30 |

Chemical Technology (CMT)

- Students will determine and demonstrate safe lab practices and use of lab safety resources
- · Students will utilize basic laboratory equipment and techniques
- Students will develop an ability to apply written, oral, and graphical communication in both technical and non-technical environments, and an ability to identify and use appropriate technical literature
- Students will effectively utilize lab tools in accurate/precise solution preparation
- Students will apply a variety of lab calculations common in chemical analysis
- · Students will be able to compile and evaluate experimental data
- Students will design and conduct an individual research project showing mastery of experimental design and project completion

Faculty

Program Chair/Advisor

Professor Ann Fallon, MS ann.fallon@cincinnatistate.edu

Co-op Coordinator

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff, MBA james.woodruff@cincinnatistate.edu

Environmental Engineering Technology (EVT)

Environmental Engineering Technology (EVT)

Environmental issues affect our health and our communities, as well as the sustainability of future generations and the earth itself.

Environmental concerns directly affect the operations of all types of industries, including parks and forest services, transportation, chemical facilities, defense and energy, construction, and, of course, environmental services.

Graduates of the Environmental Engineering Technology program earn an Associate of Applied Science degree and are prepared to enter positions in a wide range of industries, environmental restoration sites, government agencies, laboratories, consulting firms, and conservation districts.

Most curriculum courses, not including cooperative education courses, meet Ohio Environmental Protection Agency requirements for license renewal (U.S. EPA External Provider).

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Environmental Engineering Technology (EVT)

| Semester 1 | | Lec | Lab Cr | edits |
|-------------------------------------|---|-----|--------|-------|
| EVT 105 | Environmental Sampling (B) | 2 | 3 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective (B) | | | | |
| CHE XXX | | 3 | 3 | 4 |
| Chemistry | | Ü | Ü | · |
| Elective (B) | | | | |
| MAT XXX | | 4 | 0 | 4 |
| Mathematics | | | | |
| Elective 1 | | | | |
| (G) ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| EVS 110 | Environmental Science: | 3 | 2 | 4 |
| LVSTIO | Conservation and Cleanup (G) | 3 | 2 | 4 |
| Semester 2 | , , , | | | |
| EVT 170 | Water and Wastewater Treatment | 3 | 3 | 4 |
| E)/E 440 | and Analysis (T) | | 0 | 0 |
| EVT 140 | Environmental Regulations and Permits (T) | 1 | 2 | 2 |
| EVT 160 | Solid and Hazardous Waste Management (T) | 2 | 3 | 3 |
| MAT XXX | | 4 | 0 | 4 |
| Mathematics | | | | |
| Elective 2 (B) | | | | |
| EVT 150 | Environmental Chemistry (B) | 2 | 3 | 3 |
| Semester 3 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Cooperative Education | | | | |
| Elective (T) | | | | |
| Semester 4 | | | | |
| EVT 240 | Fluid Mechanics (T) | 3 | 3 | 4 |
| EVS 120 | Environmental Geology (T) | 3 | 2 | 4 |
| EVT 220 | Air Pollution Control (T) | 2 | 3 | 3 |
| EVT 230 | Treatment Technologies (T) | 2 | 2 | 3 |
| Semester 5 | | | | |

| EVT 292 | Full-Time Cooperative Education 2: Environmental Engineering Technology (T) | 1 | 40 | 2 |
|-----------------------------------|--|----|-----|----|
| Semester 6 | | | | |
| EVT 155 | Site Mapping and GIS (T) | 2 | 3 | 3 |
| XXX XXX | | 1 | 2 | 2 |
| Statistics | | | | |
| Elective (T) | | | | |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition Elective (G) | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | 3 | U | 3 |
| Humanities | | | | |
| or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| XXX XXX | | 1 | 2 | 2 |
| Technical | | | | |
| Elective (T) | | | | |
| Total Credits: | | 50 | 116 | 66 |

Electives

| First Vos | ar Experience | Flective |
|------------|---------------|----------|
| THISL I CO | 11 EXDELICITE | Elective |

| FYE 100 | College Survival Skills | 1 |
|------------------------|--|----|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Chemistry Elect | ive | |
| CHE 110 | Fundamentals of Chemistry | 4 |
| CHE 121 | General Chemistry 1 | 5 |
| & CHE 131 | and General Chemistry 1 Lab | |
| Mathematics Ele | ectives | 8 |
| Select one the fo | llowing series: | |
| MAT 125 | Algebra and Trigonometry | 8 |
| & MAT 126 | and Functions and Calculus | |
| Or | | |
| MAT 151 | College Algebra | 8 |
| & MAT 152 | and Trigonometry | |
| Or | | |
| MAT 251 | Calculus 1 | 10 |
| & MAT 252 | and Calculus 2 | |
| | ucation Elective | 2 |
| Select one of the | · · · · · · · · · · · · · · · · · · · | |
| CIT 190 & EVT 191 | Career Preparation: Engineering and Information Technologies | 2 |
| | and Part-Time Cooperative Education 1: Environmental Engineering Technology | |
| EVT 191 | Part-Time Cooperative Education 1: | 2 |
| & EVT 192 | Environmental Engineering Technology | |
| | and Part-Time Cooperative Education 2: | |
| | Environmental Engineering Technology | |
| EVT 291 | Full-Time Cooperative Education 1: Environmental Engineering Technology | 2 |
| Statistics Electi | ve | |

| EVT 180 | Environmental Statistics | 2 |
|----------------------------------|---|---|
| MAT 131 | Statistics 1 | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Arts/Humanities Elective | Elective or Social/Behavioral Science | |
| Any ART, CULT, | FRN, LIT, MUS, PHI, REL, SPN, THE | 3 |
| or, Any CRJ, EC | O, GEO, HST, POL, PSY, SOC | 3 |
| Technical Electi | ive | |
| Any CET, CMT, I Program Chair | EVS, EVT, LH, or other course approved by | 2 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Environmental Engineering Technology (EVT, EVTS, EVTW)

- Ability to apply knowledge, techniques, skills, and modern tools in environmental engineering technology activities
- Ability to apply a knowledge of mathematics, science, engineering, and technology to environmental engineering technology problems
- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments
- Ability to function effectively as a member of a technical team
- Ability to identify, analyze, and solve environmental engineering technology problems
- Ability to apply written, oral, and graphical communication; and ability to identify and use appropriate technical literature
- Understanding of the need for self-directed continuing professional development
- Understanding of and commitment to address professional and ethical responsibilities, including a respect for diversity
- Commitment to quality, timeliness, and continuous improvement

Faculty

Program Chair

Professor Ann Gunkel, PhD ann.gunkel@cincinnatistate.edu

Co-op Coordinators

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff, MBA james.woodruff@cincinnatistate.edu

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Advisor

Professor Ann Fallon, MS ann.fallon@cincinnatistate.edu

Environmental Engineering Technology - Stormwater Management (EVTS)

Environmental Engineering Technology —Stormwater Management Major (EVTS)

The Environmental Engineering Technology - Stormwater Management Major prepares students to apply emerging technologies related to stormwater control. As water quality regulations become more stringent, environmental engineers and technicians must gain knowledge of stormwater management practices, including methods for targeting specific pollutants in order to maximize benefits to the watershed.

Graduates earn an Associate of Applied Science degree. Courses focus on environmental mapping, watershed management, stormwater management technologies, and restoration ecology. The program also stresses effectively applying various stormwater management practices.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Environmental Engineering Technology —Stormwater Management Major (EVTS)

| Semester 1 | | Lec | Lab Cre | edits |
|---|--|-----|---------|-------|
| EVT 105 | Environmental Sampling (B) | 2 | 3 | 3 |
| EVS 110 | Environmental Science: Conservation and Cleanup (G) | 3 | 2 | 4 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| CHE XXX Chemistry Elective (B) | | 3 | 3 | 4 |
| MAT XXX Mathematics Elective 1 (G) | | 4 | 0 | 4 |
| Semester 2 | | | | |
| EVT 150 | Environmental Chemistry (B) | 2 | 3 | 3 |
| EVT 155 | Site Mapping and GIS (T) | 2 | 3 | 3 |
| EVT 175 | Watershed Management (T) | 2 | 3 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| | | | | |

| L V O 120 | Environmental Geology (1) | 5 | _ | - |
|------------------------------------|---|----|-----|----|
| Semester 3 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education Elective (T) | | | | |
| MAT XXX | | 4 | 0 | 4 |
| Mathematics | | 4 | U | 4 |
| Elective 2 (B) |) | | | |
| Semester 4 | | | | |
| EVT 140 | Environmental Regulations and Permits (T) | 1 | 2 | 2 |
| EVT 225 | Environmental Mapping (T) | 2 | 2 | 3 |
| EVT 240 | Fluid Mechanics (T) | 3 | 3 | 4 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| XXX XXX | | 1 | 2 | 2 |
| Technical Elective (T) | | | | |
| Semester 5 | | | | |
| EVT 170 | Water and Wastewater Treatment | 3 | 3 | 4 |
| | and Analysis (T) | | | |
| EVT 255 | Stormwater Control Technologies (T) | 2 | 2 | 3 |
| EVT 235 | Stormwater Management (T) | 2 | 2 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Semester 6 | | | | |
| EVT 292 | Full-Time Cooperative Education | 1 | 40 | 2 |
| | 2: Environmental Engineering | | | |
| | Technology (T) | | | |
| Total Credits: | | 51 | 115 | 67 |
| Elective: | _ | | | |
| FYE 100 | cperience Elective College Survival Skills | | | 1 |
| FYE 105 | College Success Strategies | | | 2 |
| FYE 103 | | | | |
| | Community College Experience | | | 3 |
| Chemistry E | | | | 1 |
| CHE 110 | Fundamentals of Chemistry | | | 4 |
| CHE 121 & CHE 131 | General Chemistry 1 and General Chemistry 1 Lab | | | 5 |
| Mathematics | s Electives | | | 8 |
| Select one of | the following series: | | | |
| MAT 125 | Algebra and Trigonometry | | | 8 |
| & MAT 126 | and Functions and Calculus | | | |
| MAT 151 | College Algebra | | | 8 |
| & MAT 152 | and Trigonometry | | | |

EVS 120

Environmental Geology (T)

| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 | 10 |
|---|---|----|
| *************************************** | | |
| Cooperative Ed | ucation Elective | 2 |
| Select one of the | following: | |
| CIT 190 & EVT 191 | Career Preparation: Engineering and Information Technologies and Part-Time Cooperative Education 1: | 2 |
| | Environmental Engineering Technology | |
| EVT 191 & EVT 192 | Part-Time Cooperative Education 1: Environmental Engineering Technology and Part-Time Cooperative Education 2: Environmental Engineering Technology | 2 |
| EVT 291 | Full-Time Cooperative Education 1: Environmental Engineering Technology | 2 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Technical Electi | ive | |
| Any EVT, EVS, C Chair | CIT, LH, or other course approved by Program | 2 |
| Arts/Humanities Elective | Elective or Social/Behavioral Science | |
| Any ART, CULT, | FRN, LIT, MUS, PHI, REL, SPN, THE | 3 |
| or, Any CRJ, EC | O, GEO, HST, POL, PSY, SOC | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Environmental Engineering Technology (EVT, EVTS, EVTW)

- Ability to apply knowledge, techniques, skills, and modern tools in environmental engineering technology activities
- Ability to apply a knowledge of mathematics, science, engineering, and technology to environmental engineering technology problems
- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments
- Ability to function effectively as a member of a technical team
- Ability to identify, analyze, and solve environmental engineering technology problems
- Ability to apply written, oral, and graphical communication; and ability to identify and use appropriate technical literature
- Understanding of the need for self-directed continuing professional development
- Understanding of and commitment to address professional and ethical responsibilities, including a respect for diversity
- · Commitment to quality, timeliness, and continuous improvement

Faculty

Program Chair/Advisor

Professor Ann Gunkel, PhD ann.gunkel@cincinnatistate.edu

Co-op Coordinators

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff james.woodruff@cincinnatistate.edu

Advisor

Professor Ann Fallon, MS ann.fallon@cincinnatistate.edu

Environmental Engineering Technology - Water and Wastewater Major (EVTW)

Environmental Engineering Technology —Water and Wastewater Major (EVTW)

The Environmental Engineering Technology - Water and Wastewater Major emphasizes water and wastewater treatment, and the operation and design of water and wastewater treatment facilities. Courses focus on biological, physical, and chemical treatment processes; collection and distribution systems; calculations for water and wastewater personnel, safety, and statistics; and quality assurance and control.

Graduates of the Environmental Engineering Technology—Water and Wastewater Major earn an Associate of Applied Science degree and are prepared to work at municipal water and wastewater treatment plants; industrial wastewater treatment facilities; federal, state, and local government agencies; private civil and environmental engineering consulting firms; and water and wastewater analytical labs.

Most curriculum courses, not including cooperative education courses, meet Ohio Environmental Protection Agency requirements for license renewal (U.S. EPA External Provider).

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Environmental Engineering Technology —Water and Wastewater Major (EVTW)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|-------------------------------|-----|--------|-------|
| EVT 105 | Environmental Sampling (B) | 2 | 3 | 3 |
| EVS 110 | Environmental Science: | 3 | 2 | 4 |
| | Conservation and Cleanup (G) | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |

| FYE 1XX | | 1 | 0 | 1 | XXX XXX | 3 0 | 3 |
|------------------------------------|--|---|----|---|--------------------------|--|-----|
| First Year | | | | | Arts/ | | |
| Experience | | | | | Humanities or Social/ | | |
| Elective (B) CHE XXX | | 4 | 0 | 4 | Behavioral | | |
| Chemistry | | 4 | U | 4 | Science | | |
| Elective (B) | | | | | Elective (G) | | |
| MAT XXX | | 4 | 0 | 4 | Total Credits: | 51 113 | 67 |
| Mathematics | 1 | - | O | 7 | rotal Grounds | 3.3 | ٠. |
| Elective 1 | | | | | Electives | | |
| (G) | | | | | Eirst Voor Eyn | perience Elective | |
| Semester 2 | | | | | FYE 100 | | 4 |
| EVT 140 | Environmental Regulations and | 1 | 2 | 2 | | College Survival Skills | 1 |
| | Permits (T) | | | | FYE 105 | College Success Strategies | 2 |
| EVT 150 | Environmental Chemistry (B) | 2 | 3 | 3 | FYE 110 | Community College Experience | 3 |
| EVT 170 | Water and Wastewater Treatment | 3 | 3 | 4 | Chemistry Ele | | |
| | and Analysis (T) | | | | CHE 110 | Fundamentals of Chemistry | 4 |
| MAT XXX | | 4 | 0 | 4 | CHE 121 | General Chemistry 1 | 5 |
| Mathematics | ; | | | | & CHE 131 | and General Chemistry 1 Lab | |
| Elective 2 (B | | | | | Mathematics I | Electives | 8 |
| EVT 16X | | 2 | 2 | 3 | Select one of the | ne following series: | |
| Calculations | | | | | MAT 125 | Algebra and Trigonometry | 8 |
| for Operators | 5 | | | | & MAT 126 | and Functions and Calculus | |
| Elective (T) | | | | | MAT 151 | College Algebra | 8 |
| Semester 3 | | | | _ | & MAT 152 | and Trigonometry | |
| XXX XXX | | 1 | 40 | 2 | MAT 251 | Calculus 1 | 10 |
| Cooperative | | | | | & MAT 252 | and Calculus 2 | |
| Education Elective (T) | | | | | | or Operators Elective | |
| Semester 4 | | | | | EVT 165 | Calculations for Water Operators | 3 |
| EVT 185 | Supervisory Management in | 1 | 2 | 2 | EVT 166 | Calculations for Wastewater Operators | 3 |
| LV1 103 | Environmental Fields (T) | ' | 2 | 2 | • | ducation Elective | 2 |
| EVT 215 | Utilities Safety and Security (T) | 1 | 2 | 2 | Select one of the | ne following: | |
| EVT 230 | Treatment Technologies (T) | 2 | 2 | 3 | CIT 190 | Career Preparation: Engineering and Information | 1 2 |
| EVT 240 | Fluid Mechanics (T) | 3 | 3 | 4 | & EVT 191 | Technologies | |
| EVT 24X | ridia Weditarios (1) | 2 | 2 | 3 | | and Part-Time Cooperative Education 1: | |
| Operations | | 2 | _ | 3 | EVT 191 | Environmental Engineering Technology Part-Time Cooperative Education 1: | 2 |
| of Treatment | t | | | | & EVT 191 | Environmental Engineering Technology | 2 |
| Plants | | | | | Q 2 V 1 102 | and Part-Time Cooperative Education 2: | |
| Elective (T) | | | | | | Environmental Engineering Technology | |
| Semester 5 | | | | | EVT 291 | Full-Time Cooperative Education 1: | 2 |
| EVT 292 | Full-Time Cooperative Education | 1 | 40 | 2 | | Environmental Engineering Technology | |
| | 2: Environmental Engineering | | | | Operations of | Treatment Plants Elective | |
| | Technology (T) | | | | EVT 245 | Operation of Water Treatment Plants | 3 |
| Semester 6 | | | | | EVT 246 | Operation of Wastewater Treatment Plants | 3 |
| EVT 155 | Site Mapping and GIS (T) | 2 | 3 | 3 | English Comp | position Elective | |
| EVT 250 | Water Collection and Distribution | 2 | 2 | 3 | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| | Systems (T) | | | | ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 10X | | 3 | 0 | 3 | ENG 104 | English Composition 2: Technical | 3 |
| English | | | | | | Communication | |
| Composition Elective (G) | | | | | ENG 105 | English Composition 2: Business Communication | n 3 |
| XXX XXX | | 1 | 2 | 2 | Statistics Elec | | |
| Statistics | | ' | 2 | ۷ | EVT 180 | Environmental Statistics | 2 |
| Elective (T) | | | | | MAT 131 | Statistics 1 | 3 |
| - () | | | | | | es Elective or Social/Behavioral Science | J |
| | | | | | Elective | CO Elective of Godia/Beliaviolal Golelice | |
| | | | | | | | |

Any ART, CULT, FRN, LIT, MUS, PHI, REL, SPN, THE 3 or, Any CRJ, ECO, GEO, HST, POL, PSY, SOC 3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Environmental Engineering Technology (EVT, EVTS, EVTW)

- Ability to apply knowledge, techniques, skills, and modern tools in environmental engineering technology activities
- Ability to apply a knowledge of mathematics, science, engineering, and technology to environmental engineering technology problems
- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments
- · Ability to function effectively as a member of a technical team
- Ability to identify, analyze, and solve environmental engineering technology problems
- Ability to apply written, oral, and graphical communication; and ability to identify and use appropriate technical literature
- Understanding of the need for self-directed continuing professional development
- Understanding of and commitment to address professional and ethical responsibilities, including a respect for diversity
- · Commitment to quality, timeliness, and continuous improvement

Faculty

Program Chair/Advisor

Professor Ann Gunkel, PhD ann.gunkel@cincinnatistate.edu

Co-op Coordinators

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff, MBA james.woodruff@cincinnatistate.edu

Advisor

Professor Ann Fallon, MS ann.fallon@cincinnatistate.edu

Environmental Safety and Security Certificate (EVTSC)

Environmental Safety and Security Certificate (EVTSC)

The Environmental Safety and Security Certificate develops skills that are used in fields associated with protecting the nation during natural disaster, war, or terrorist attack. These career areas include disaster

preparedness, utilities safety and security, transportation safety and security, law enforcement, and research.

Additionally, graduates of this certificate program can help prepare staff members who ensure the safety of personnel in business, government, and educational organizations.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Environmental Safety and Security Certificate (EVTSC)

| Semester 1 | | Lec | Lab C | redits |
|---------------|---|-----|-------|--------|
| EVT 105 | Environmental Sampling | 2 | 3 | 3 |
| EVS 110 | Environmental Science: Conservation and Cleanup | 3 | 2 | 4 |
| CHE 110 | Fundamentals of Chemistry | 3 | 3 | 4 |
| EVT 220 | Air Pollution Control | 2 | 3 | 3 |
| Semester 2 | | | | |
| EVT 160 | Solid and Hazardous Waste Management | 2 | 3 | 3 |
| EVT 170 | Water and Wastewater Treatment and Analysis | 3 | 3 | 4 |
| EVT 215 | Utilities Safety and Security | 1 | 2 | 2 |
| EVT 257 | Environmental Risk Assessment | 1 | 2 | 2 |
| Semester 3 | | | | |
| EVT 187 | Materials Transportation Safety and Security | 1 | 2 | 2 |
| EVT 237 | Environmental Impact of Weapons of Mass Destruction | 1 | 2 | 2 |
| EVT 247 | Advanced Sampling and Analysis | 1 | 2 | 2 |
| Total Credits | : | 20 | 27 | 31 |

Faculty

Program Chair/Advisor

Professor Ann Gunkel, PhD ann.gunkel@cincinnatistate.edu

Civil Engineering Technologies

Civil engineering deals with the planning, design, construction, and maintenance of buildings, houses, roads, bridges, and public utilities. Every construction project involves civil engineers and support technicians engaged in many different capacities, including design, supervision, and inspection.

Civil engineering technology harnesses the power of advanced computer technologies in the fields of visualization, measurement, and planning to deliver high quality projects. The civil engineering technician is constantly adapting the latest technological tools to solve problems that serve clients and the public at large.

The Civil Engineering Technologies Department at Cincinnati State offers three programs leading to an associate's degree:

• The Architectural major (CETAO)

f (http://catalog.cincinnatistate.edu/ academicdivisionsanddegreeampcertificateprograms/ centerforinnovativetechnologies/ civilengineeringtechnologies/nextcatalog.cincinnatistate.edu/ academicdivisionsanddegreeampcertificateprograms/ centerforinnovativetechnologies/civilengineeringtechnologies/ cetao)ocuses on the design of building systems, including lighting, HVAC, mechanical, and electrical systems. Graduates use their expertise in computer-aided drafting (CAD) to modify and finalize an architect's or engineer's detailed design plan.

- The Construction Management major (CETCO) concentrates on understanding project documentation, building methods and materials, estimating, scheduling, and team dynamics. Graduates have the skills necessary to successfully deliver a construction project.
- The Surveying major (CETSO) emphasizes operation of state-ofthe-art surveying equipment and computer software to collect data and propose solutions in boundary resolution, subdivision design, construction layout, and control networks.

All of these programs prepare graduates to successfully pursue a bachelor's degree in a related academic area, and to enter the workforce and advance professionally through technical and management positions in industry.

Courses are scheduled to meet the needs of traditional full-time students as well as part-time students, who can earn an associate's degree while attending classes two nights per week.

The department also offers certificates for educational and professional advancement in surveying.

- The Advanced Land Surveying Certificate (ASC) serves as a conduit for graduates of an accredited associate's degree surveying program to earn a surveying-focused bachelor's degree at Northern Kentucky University.
- The Land Surveying Certificate (LSC) is designed for graduates and students in bachelor's degree civil engineering programs who wish to be eligible for the professional surveyor examinations in the State of Ohio.

The Civil Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 415 N. Charles St., Baltimore, MD 21202-4012. Phone (410) 347-7700.

Additionally, the Construction Management major has earned accreditation from the American Council for Construction Education (ACCE), making it the only program in the United States to hold both accreditations.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Architechural Major (CETAO)

Civil Engineering Technology— Architectural Major (CETAO)

The Civil Engineering Technology - Architectural Major prepares graduates to bridge the gap between the architect and design engineer by assisting in the design of architectural, mechanical, electrical, and lighting systems for buildings.

Architectural technicians fill support positions in various architectural and engineering firms, and provide an important interface between the architect and the project engineer.

Graduates earn an Associate of Applied Science degree. To prepare students for the current needs of the profession, the curriculum provides fundamental knowledge of building information modeling and computer aided design (CAD) using Revit Architecture and Revit MEP software for design and construction of architectural, mechanical, and lighting systems.

In addition, students gain knowledge of construction methods and principles, architectural drafting and design, and the structural design involved in building construction.

The Civil Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201. Phone (410) 347-7700.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Civil Engineering Technology— Architectural Major (CETAO)

| Semester 1 | | Lec | Lab Cr | edits |
|-----------------------|--|-----|--------|-------|
| CET 100 | Introduction to Civil Engineering Technology (B) | 2 | 2 | 3 |
| CET 105 | Introduction to Surveying (B) | 2 | 3 | 3 |
| CET 115 | Architectural Drafting and Computer Aided Design (B) | 2 | 4 | 4 |
| MAT 125 | Algebra and Trigonometry (G) | 3 | 2 | 4 |
| FYE 1XX First Year | | 1 | 0 | 1 |
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| CET 120 | Advanced Computer Aided Design: Revit Architecture (T) | 3 | 3 | 4 |
| CET 125 | Statics and Strength of Materials (CET) (T) | 3 | 3 | 4 |
| CET 130 | Building Codes and Materials (T) | 2 | 2 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MAT 126 | Functions and Calculus | 3 | 2 | 4 |
| Semester 3 | | | | |

| CET 291 | Full-Time Cooperative Education 1: Civil Engineering Technology | 1 | 40 | 2 |
|--|---|----|-----|----|
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| Semester 4 | | | | |
| CET 205 | Architectural Design and 3D Modeling: Revit Architecture (T) | 3 | 3 | 4 |
| CET 211 | Advanced Revit 1 (T) | 3 | 3 | 4 |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 3 | 3 | 4 |
| ECO 110 | Principles of Macroeconomics | 3 | 0 | 3 |
| Semester 5 | | | | |
| CET 292 | Full-Time Cooperative Education 2: Civil Engineering Technology | 1 | 40 | 2 |
| Semester 6 | | | | |
| CET 200 | Structural Design (T) | 3 | 3 | 4 |
| CET 212 | Advanced Revit 2 (T) | 3 | 3 | 4 |
| CET 280 | Civil Engineering Technology Architectural Capstone (T) | 2 | 5 | 4 |
| Total Credits: | : | 52 | 121 | 70 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Civil Engineering Technologies (CETAO, CETCO, CETSO)

ACCE

- · Demonstrate effective communication, both orally and in writing.
- Demonstrate the ability to estimate quantities and costs for the bidding process in a construction project.
- Demonstrate the ability to schedule a basic construction project.
- Demonstrate the ability to use current technology related to the construction process.

- Interpret construction documents (contracts, specifications, and drawings) used in managing a construction project.
- · Apply basic principles of construction accounting.
- Use basic surveying techniques used in building layout.
- · Discuss basic principles of ethics in the construction industry.
- Identify the fundamentals of contracts, codes, and regulations that govern a construction project.
- · Recognize basic construction methods, materials, and equipment
- Recognize basic safety hazards on a construction site and standard prevention measures.
- · Recognize the basic principles of structural design.
- Recognize the basic principles of mechanical, electrical, and piping systems.

ABET

- Ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities
- Ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.
- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments.
- Ability to function effectively as a member of a technical team.
- Ability to identify, analyze, and solve narrowly defined engineering technology problems.
- Ability to apply written, oral, and graphical communication in both technical and non-technical environments; and ability to identify and use appropriate technical literature.
- Understanding of the need for and ability to engage in self-directed continuing professional development.
- Understanding of and commitment to address professional and ethical responsibilities, including a respect for diversity.
- · Commitment to quality, timeliness, and continuous improvement.

Faculty

Program Chair

Professor Carol Morman, PE, PS, MS carol.morman@cincinnatistate.edu

Co-op Coordinators

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff, MBA james.woodruff@cincinnatistate.edu

Advisor

Professor Elias Feghali, BS elias.feghali@cincinnatistate.edu

Construction Management Major (CETCO)

Civil Engineering Technology— Construction Management Major (CETCO)

The Civil Engineering Technology - Construction Management Major prepares graduates to coordinate and supervise the construction process from design through construction while meeting schedule, cost, and quality goals.

Graduates earn an Associate of Applied Science degree, and gain thorough understanding of project documentation, building methods and materials, estimating, scheduling, and team dynamics. Graduates also are well-versed in computer-integrated construction, and the practices and methods used throughout residential, commercial, and industrial construction.

The Civil Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201. Phone (410) 347-7700.

The Civil Engineering Technology - Construction Management program is also accredited by the American Council for Construction Education (ACCE), 1717 North Loop 1604 East, Suite 320, San Antonio, TX 78232-1570. Phone (210) 495-6161.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Civil Engineering Technology— Construction Management Major (CETCO)

| Semester 1 | | Lec | Lab Cr | edits |
|-------------------------------------|---|-----|--------|-------|
| CET 100 | Introduction to Civil Engineering Technology (B) | 2 | 2 | 3 |
| CET 105 | Introduction to Surveying (B) | 2 | 3 | 3 |
| CET 115 | Architectural Drafting and Computer Aided Design (B) | 2 | 4 | 4 |
| MAT 125 | Algebra and Trigonometry (G) | 3 | 2 | 4 |
| FYE 1XX First Year Experience | | 1 | 0 | 1 |
| Elective (B) | | | | |
| Semester 2 | | | | |
| CET 110 | Advanced Surveying and Construction Layout (T) | 2 | 3 | 3 |
| CET 120 | Advanced Computer Aided Design: Revit Architecture (T) | 3 | 3 | 4 |
| CET 135 | Construction Estimating (T) | 2 | 2 | 3 |
| CET 225 | Building Construction (T) | 2 | 2 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| Semester 3 | | | | |

| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
|--|--|----|-----|----|
| MAT 126 | Functions and Calculus (B) | 3 | 2 | 4 |
| CET 291 | Full-Time Cooperative Education 1: Civil Engineering Technology (T) | 1 | 40 | 2 |
| Semester 4 | | | | |
| CET 125 | Statics and Strength of Materials (CET) (T) | 3 | 3 | 4 |
| CET 230 | Construction Management (T) | 2 | 2 | 3 |
| CET 235 | Construction Scheduling (T) | 2 | 3 | 3 |
| CET 240 | Cost Engineering (T) | 2 | 2 | 3 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| Semester 5 | | | | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based (G) | 3 | 3 | 4 |
| CET 292 | Full-Time Cooperative Education 2: Civil Engineering Technology (T) | 1 | 40 | 2 |
| Semester 6 | | | | |
| CET 200 | Structural Design (T) | 3 | 3 | 4 |
| CET 245 | Building Information Models for Construction (T) | 1 | 3 | 2 |
| CET 285 | Civil Engineering Technology Construction Management Capstone (T) | 2 | 3 | 3 |
| ECO 110 | Principles of Macroeconomics (G) | 3 | 0 | 3 |
| XXX XXX Business Elective (B) | | 3 | 0 | 3 |
| Total Credits: | | 57 | 125 | 77 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|------------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Business Electi | ve | |
| Any ACC, FIN, N | MGT, MKT | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Civil Engineering Technologies (CETAO, CETCO, CETSO)

ACCE

- · Demonstrate effective communication, both orally and in writing.
- Demonstrate the ability to estimate quantities and costs for the bidding process in a construction project.
- Demonstrate the ability to schedule a basic construction project.
- Demonstrate the ability to use current technology related to the construction process.
- Interpret construction documents (contracts, specifications, and drawings) used in managing a construction project.
- · Apply basic principles of construction accounting.
- Use basic surveying techniques used in building layout.
- · Discuss basic principles of ethics in the construction industry.
- Identify the fundamentals of contracts, codes, and regulations that govern a construction project.
- Recognize basic construction methods, materials, and equipment
- Recognize basic safety hazards on a construction site and standard prevention measures.
- · Recognize the basic principles of structural design.
- Recognize the basic principles of mechanical, electrical, and piping systems.

ABET

- Ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities.
- Ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.
- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments.
- Ability to function effectively as a member of a technical team.
- Ability to identify, analyze, and solve narrowly defined engineering technology problems.
- Ability to apply written, oral, and graphical communication in both technical and non-technical environments; and ability to identify and use appropriate technical literature.
- Understanding of the need for and ability to engage in self-directed continuing professional development.
- Understanding of and commitment to address professional and ethical responsibilities, including a respect for diversity.
- Commitment to quality, timeliness, and continuous improvement.

Faculty

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Co-op Coordinators

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff, MBA james.woodruff@cincinnatistate.edu

Evening Student Advisor

Professor Elias Feghali, BS elias.feghali@cincinnatistate.edu

Surveying Major, Advanced Surveying Certificate, Land Surveying Certificate (CETSO, ASC, LSC)

Civil Engineering Technology— Surveying Major (CETSO)

A surveyor enjoys diverse responsibilities as part of his or her everyday routine. Many surveying technicians work outside collecting data, establishing control points, and determining boundary locations. Others work inside an engineering office helping with site design activities and developing plans while using the field data.

Graduates of the Civil Engineering Technology - Surveying Major earn an Associate of Applied Science degree. Coursework includes operating state-of-the-art surveying equipment and computer software, in conjunction with fundamentals of civil engineering and site design. Students also gain specialized knowledge of boundary resolution, subdivision design, geographic information systems (GIS), and global positioning systems (GPS).

The Civil Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21201. Phone (410) 347-7700.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Advanced Surveying Certificate (ASC)

The Advanced Surveying Certificate at Cincinnati State, offered in cooperation with Northern Kentucky University, is for graduates of the Civil Engineering Technology—Surveying Option (CETS) or other related associate's degree programs, and serves as the third year of a bachelor's degree program at Northern Kentucky University or the University of Cincinnati.

The certificate program has been approved by the State Boards of Registration in Ohio, Indiana, and Kentucky.

Most courses in the certificate are offered through online education, including classes in geographic information systems (GIS), global positioning systems (GPS), and legal topics.

Students should check with their state licensing board for possible changes to specific requirements before taking any coursework.

Graduates of other associate's degree programs must complete all prerequisite material in the Cincinnati State CETS program prior to acceptance into the certificate program.

Prospective students must meet with the certificate advisor prior to admission to the program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Land Surveying Certificate (LSC)

The Land Surveying Certificate is for students enrolled in or who have graduated from a bachelor's degree civil engineering program who wish to pursue Professional Surveying registration in Ohio, Kentucky, or Indiana.

The certificate program offers designated courses required by the Board of Registration for Professional Engineers and Surveyors in these states to qualify for the surveying fundamentals examination.

The certificate program courses are offered in the evening and may be completed in consecutive semesters.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Civil Engineering Technology— Surveying Major (CETSO)

| Semester 1 | | Lec | Lab Cı | edits |
|-----------------------|---|-----|--------|-------|
| CET 100 | Introduction to Civil Engineering Technology (B) | 2 | 2 | 3 |
| CET 105 | Introduction to Surveying (B) | 2 | 3 | 3 |
| CET 115 | Architectural Drafting and Computer Aided Design (B) | 2 | 4 | 4 |
| MAT 125 | Algebra and Trigonometry (G) | 3 | 2 | 4 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| CET 110 | Advanced Surveying and Construction Layout (T) | 2 | 3 | 3 |
| CET 120 | Advanced Computer Aided | 3 | 3 | 4 |
| | Design: Revit Architecture (T) | | | |
| CET 125 | Statics and Strength of Materials | 3 | 3 | 4 |
| | (CET) (T) | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MAT 126 | Functions and Calculus (B) | 3 | 2 | 4 |
| Semester 3 | | | | |

| CET 291 | Full-Time Cooperative Education | 1 | 40 | 2 |
|-----------------------------------|---|--------|-----|----|
| | 1: Civil Engineering Technology (T) | | | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based (G) | 3 | 3 | 4 |
| Semester 4 | | | | |
| CET 251 | Elements of Land Surveying 1 (T) | 3 | 2 | 4 |
| CET 250 | Route Location and Design (T) | 3 | 2 | 4 |
| CET 255 | Land Information Modeling (T) | 2 | 3 | 3 |
| ECO 110 | Principles of Macroeconomics (G) | 3 | 0 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition Elective (G) | | | | |
| Semester 5 | | | | |
| CET 252 | Elements of Land Surveying 2 (T) | 3 | 3 | 4 |
| CET 260 | Control Surveying (T) | 3 | 3 | 4 |
| CET 292 | , , , | ა 1 | 40 | 2 |
| CE 1 292 | Full-Time Cooperative Education 2: Civil Engineering Technology (| ' | 40 | 2 |
| | T) | | | |
| Semester 6 | , | | | |
| CET 265 | Subdivision Design and Drainage Control (T) | 3 | 3 | 4 |
| CET 290 | Civil Engineering Technology Surveying Capstone (T) | 1 | 6 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| Total Credits: | | 56 | 127 | 76 |
| | | | | |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Advanced Surveying Certificate (ASC)

Program Prerequisites: Graduate from the Cincinnati State Civil Engineering Technologies Surveying Option, or complete comparable coursework. Meet with the certificate advisor prior to admission to the program.

Most required courses are offered via online education.

| Semester 1 | | Lec | Lab C | redits |
|--------------------------------|--|-----|-------|--------|
| CET 267 | Surveying Laws and Ethics | 4 | 0 | 4 |
| CET 277 | Survey Calculations and Statistics | 4 | 0 | 4 |
| CET 266 | Surveying History in Ohio, Kentucky, and Indiana (T) | 4 | 0 | 4 |
| Semester 2 | | | | |
| XXX XXX Science Elective | | 3 | 0 | 3 |
| Semester 3 | | | | |
| CET 287 | Geospatial Surveying | 4 | 0 | 4 |
| Total Credits | : | 19 | 0 | 19 |

Science Elective

| BIO 131 | Biology 1 | 5 |
|----------------------|---|---|
| CHE 110 | Fundamentals of Chemistry | 4 |
| CHE 121 & CHE 131 | General Chemistry 1 and General Chemistry 1 Lab | 5 |
| EVS 120 | Environmental Geology | 4 |
| LH 130 | Woody Plant Materials | 3 |
| PHY 152 | Physics 2: Algebra and Trigonometry-Based | 4 |
| PSC 105 | Astronomy | 4 |
| PSC 110 | Earth Science | 4 |

Note: Students seeking Surveyor Registration in Indiana must complete (or have previously completed) these courses: MAT 251 (Calculus 1), and six semester hours from the following areas: Freshman Chemistry, Astronomy, Geology, or Dendrology (Woody Plants).

Land Surveying Certificate (LSC)

Program Prerequisite: Enrolled in or a graduate of a four-year Civil Engineering degree program.

This program meets the Ohio State Board of Registration for Professional Engineering and Surveyors requirements for education needed to become eligible for the registration exam for professional surveyors.

| Semester 1 | | Lec | Lab Cr | edits |
|------------|--|-----|--------|-------|
| CET 251 | Elements of Land Surveying 1 | 3 | 2 | 4 |
| CET 267 | Surveying Laws and Ethics | 4 | 0 | 4 |
| CET 266 | Surveying History in Ohio, Kentucky, and Indiana (T) | 4 | 0 | 4 |
| Semester 2 | | | | |
| CET 252 | Elements of Land Surveying 2 | 3 | 3 | 4 |
| CET 260 | Control Surveying | 3 | 3 | 4 |
| Semester 3 | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Technical | | | | |
| Elective 1 | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Technical | | | | |
| Elective 2 | | | | |
| Semester 4 | | | | |

| CET 250 | Route Location and Design | 3 | 2 | 4 |
|---------------|---------------------------|----|----|----|
| CET 2XX | | 4 | 0 | 4 |
| Surveying | | | | |
| Elective | | | | |
| Total Credits | S: | 30 | 10 | 34 |

Electives

Technical Electives

Students seeking registration in Indiana are required to take:

MAT 251 Calculus 1

& PHY 152 and Physics 2: Algebra and Trigonometry-Based

Students seeking registration in Ohio or Kentucky choose technical electives based the following criteria:

Select Civil Engineering Technology (CET) courses or other courses approved by Program Chair

| Surveying Elec | tive | |
|----------------|------------------------------------|---|
| CET 277 | Survey Calculations and Statistics | 4 |
| CET 287 | Geospatial Surveying | 4 |

Civil Engineering Technologies (CETAO, CETCO, CETSO)

ACCE

- Demonstrate effective communication, both orally and in writing.
- Demonstrate the ability to estimate quantities and costs for the bidding process in a construction project.
- Demonstrate the ability to schedule a basic construction project.
- Demonstrate the ability to use current technology related to the construction process.
- Interpret construction documents (contracts, specifications, and drawings) used in managing a construction project.
- · Apply basic principles of construction accounting.
- Use basic surveying techniques used in building layout.
- Discuss basic principles of ethics in the construction industry.
- Identify the fundamentals of contracts, codes, and regulations that govern a construction project.
- · Recognize basic construction methods, materials, and equipment
- Recognize basic safety hazards on a construction site and standard prevention measures.
- Recognize the basic principles of structural design.
- Recognize the basic principles of mechanical, electrical, and piping systems.

ABET

- Ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities
- Ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.
- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments.
- Ability to function effectively as a member of a technical team.
- Ability to identify, analyze, and solve narrowly defined engineering technology problems.

- Ability to apply written, oral, and graphical communication in both technical and non-technical environments; and ability to identify and use appropriate technical literature.
- Understanding of the need for and ability to engage in self-directed continuing professional development.
- Understanding of and commitment to address professional and ethical responsibilities, including a respect for diversity.
- · Commitment to quality, timeliness, and continuous improvement.

Faculty

Program Chair/Advisor

Professor Carol Morman, PE, PS, BS carol.morman@cincinnatistate.edu

Co-op Coordinators

Jennifer Geiger, BS jennifer.geiger@cincinnatistate.edu

James (Doug) Woodruff, MBA james.woodruff@cincinnatistate.edu

Advisors

Professor Jim Decker, PS james.decker@cincinnatistate.edu

George Armstrong, PE, PS, BS george.armstrong@cincinnatistate.edu

Evening Student Advisor

Professor Elias Feghali, BS elias.feghali@cincinnatistate.edu

Computer Programming and Database Management

The work done by graduates of the Computer Programming and Database Management programs plays a major role in our daily lives. Computer programming and database design and access provide users of computers with information resources; access to the internet for individual, public, and commercial uses; and control of systems used in varied businesses and industrial applications.

All of the Computer Programming and Database Management degree programs prepare graduates to successfully enter the workforce and advance professionally in technical and management careers, or to continue their education in a bachelor's degree program.

The Computer Programming and Database Management department offers three majors, each leading to an associate's degree, as well as a certificate program.

- The Computer Information Systems Major (CINS) focuses on the design, development, implementation, and maintenance of software used in a variety of industries. Students gain knowledge of computer operating systems and software development using several programming languages. Students also gain knowledge of core practices in business and/or health care, depending on their focus
- The Computer Software Development Major (CSD) is an online program that prepares students to design, code, and implement

various types of web and database applications using state-ofthe-art development tools. All courses in this program can be completed online.

- The Software Engineering Technology Major (SET) provides extensive training in computer programming as well as knowledge of electronics needed to control systems with computer software and interfaces.
- The Computer Software Development Certificate (CSDC) is for experienced programmers looking to update or retool their skills, or for individuals preparing to enter the Information Technology field who already have a bachelor's degree in a different discipline. The certificate courses focus on software development skills needed in industry today, and all courses are available through online learning.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Computer Information Systems Major (CINS)

Computer Programming and Database Management - Computer Information Systems Major (CINS)

The Computer Programming and Database Management - Computer Information Systems Major (CINS) focuses on the design, development, implementation, and maintenance of software used in a variety of industries.

Students gain knowledge of computer operating systems and software development using several programming languages. Students also gain knowledge of core practices in business and/or health care, depending on their focus.

Graduates earn an Associate of Applied Science degree and are prepared to enter the workforce as skilled computer programmers and systems integrators. Graduates may continue their education in a bachelor's degree program in computer science, information systems, business informatics, or business administration.

Although some required courses are available through evening and/ or online classes, most of the required courses for the Computer Information Systems Major are scheduled on Monday through Friday between 8 a.m. and 5 p.m.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Information Systems Major (CINS)

| Semester 1 | Lec | Lab Cr | edits |
|--------------|-----|--------|-------|
| FYE 1XX | 1 | 0 | 1 |
| First Year | | | |
| Experience | | | |
| Elective (B) | | | |

| END 10 | | | | | | | | | | |
|--|-------------------------|--------------------------------|---|----|---|---------------------|-------------------------------------|---------|-----------|-----|
| Computer | ENG 101 | English Composition 1 (G) | 3 | 0 | 3 | | | 2 | 3 | 3 |
| Final | XXX-XXX | | 3 | 0 | 3 | | | | | |
| Thin | | | | | | | | | | |
| Mathematics | Elective (G) | | | | | | | | | |
| XXX | IT 100 | | 2 | 3 | 3 | | | 3 | 0 | 3 |
| Mathematics | | Foundations (T) | | | | • | | | | |
| Figure F | XXX- | | 3 | 0 | 3 | | | | | |
| Elective (S) Semester 2 | XXX Arts/ | | | | | ` , | | _ | _ | |
| Blactive (G) Semester 5 | | | | | | | | 3 | 0 | 3 |
| Time | Elective (G) | | | | | | | | | |
| Tri | Semester 2 | | | | | ` , | | | | |
| Name | IT 101 | Programming 1 (T) | 2 | 3 | 3 | | | | | |
| Expending | IT 111 | Database Design and SQL 1 (B) | 2 | 3 | 3 | _ | | 1 | 40 | 2 |
| Computer Information Systems Selective Selec | XXX-XXX | , , | 3 | 0 | 3 | | | | | |
| Information System Syste | | | | | | ū | | | | |
| Data | • | | | | | ` , | | | | |
| CPDM 210 | Systems | | | | | CPDM 290 | | 2 | 3 | 3 |
| Total Credits System Analysis and Design (1) 2 3 3 3 5 5 1 3 6 6 5 1 1 1 1 1 1 1 1 1 | Elective 1 (B) |) | | | | | | | | |
| Time | CPDM 210 | System Analysis and Design (T) | 2 | 3 | 3 | | | | | |
| Till 102 | Semester 3 | | | | | Total Credits: | : | 52 | 113 | 65 |
| Computer First Year Experience Elective First Year Experience First Year Experiential Learning F | | Programming 2 (T) | 2 | 3 | 3 | Election. | _ | | | |
| Computer Information First Year Experience Elective First Year Experience Elective First Year Experience Elective First Year Experience Elective First Year Experience Genomics First Year Experience Genomics First Year Experience Genomics First Year Experience Genomics | | 1 Togramming 2 (1) | | | | Electives | S | | | |
| FYE 105 | | | 3 | U | 3 | First Year Ex | xperience Elective | | | |
| Elective 2 (B) | Information | | | | | FYE 100 | College Survival Skills | | | 1 |
| Machine Mach | Systems | | | | | FYE 105 | College Success Strategies | | | 2 |
| XXX-XXX | Elective 2 (B) |) | | | | FYE 110 | Community College Experience | | | 3 |
| MAT 121 Technical Algebra and Geometry with Statistics 3 MAT 125 Algebra and Trigonometry 4 4 4 4 4 4 4 4 4 | XXX-XXX | | 3 | 0 | 3 | Mathematics | | | | |
| MAT 125 Algebra and Trigonometry 4 | Computer | | | | | | | with S | tatistics | 3 |
| MAT 131 Statistics 1 3 | | | | | | | - | | idilotioo | |
| XXX-XXX | • | | | | | | | | | |
| Technical | |) | | | | | | | | |
| Concentration Elective 1 (T) | | | 2 | 3 | 3 | | | | | 4 |
| Elective 1 (T) | | | | | | _ | nposition Elective | | | |
| XXX-XXX Technical Track Elective 1 (T) Semester 4 CPDM-XXX 1 | | | | | | ENG 102 | English Composition 2: Contempo | rary Is | ssues | 3 |
| Technical Track Elective 1 (T) Semester 4 CPDM-XXX Cppm-XXX Experiential Learning Elective 1 (T) Elective 1 (T) Elective 1 (T) Experiential Learning Elective 1 (T) Elective 1 (T) Elective 1 (T) Elective 1 (T) Experiential Learning Elective 1 (T) Elective 1 (T) Elective 2 (T) Emglish Composition 2: Business Communication 3 Arts/Humanities Elective Economics Elective Economics Elective ECO 105 | ` ' |) | _ | _ | _ | ENG 103 | English Composition 2: Writing ab | out Lit | erature | 3 |
| Frack Elective 1 (T) Semester 4 CPDM-XXX 1 40 2 Arts/Humanities Elective Experiential Learning Elective 1 (T) XXX-XXX 2 3 3 ECO 110 Principles of Microeconomics 3 Experiential Learning Elective Economics Elective Economics Elective ECO 105 Principles of Microeconomics 3 Experiential Learning Elective Economics Elective ECO 105 Principles of Microeconomics 3 Experiential Learning Electives (Choose courses from 1 experiential Learning group) Elective 2 (T) Semester 5 XXX-XXX 3 0 3 ECO 110 Principles of Macroeconomics 3 Experiential Learning Electives (Choose courses from 1 experiential Learning group) Elective 2 (T) Cooperative Education Experiential Learning Coppm 190 Cooperative Education Preparation: Computer 1 Programming and Database Management 2 Programming and Database Management 3 Project-Based Experiential Learning 2 Project-Based Learning 1 2 2 3 3 3 3 4 2 3 4 3 4 3 4 3 4 3 4 3 4 | | | 2 | 3 | 3 | ENG 104 | English Composition 2: Technical | | | 3 |
| Semester 4 CPDM-XXX Experiential Learning Elective 1 (T) XXX-XXX 2 3 3 3 ECO 110 Principles of Microeconomics 3 Technical Concentration Elective 2 (T) Semester 5 XXX-XXX 3 0 3 Experiential Learning group) Cooperative Education Experiential Learning CPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management Computer Information Systems Elective 4 (B) XXX-XXX 2 3 3 3 FROM 190 FROM | | | | | | | | _ | | |
| CPDM-XXX Experiential Learning Elective 1 (T) XXX-XXX 2 3 3 ECO 110 Principles of Microeconomics 3 Experiential Learning Elective 5 (Choose courses from 1 experiential Learning group) Elective 2 (T) Semester 5 XXX-XXX 3 0 3 COmputer Information Systems Elective 4 (B) XXX-XXX 2 3 3 3 CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 296 Project-Based Learning 1 2 Project-Based Experiential Learning 1 2 | | | | | | | · · | Comm | unicatio | n 3 |
| Experiential Learning Elective 1 (T) XXX-XXX 2 3 3 ECO 105 Principles of Microeconomics 3 Experiential Learning Electives ECO 105 Principles of Microeconomics 3 ECO 110 Principles of Macroeconomics 3 Experiential Learning Electives (Choose courses from 1 Experiential Learning Electives (Choose courses | Semester 4 | | | | | Arts/Humani | ities Elective | | | |
| Economics Elective Elective 1 (T) Elective 1 (T) ECO 105 Principles of Microeconomics 3 XXX-XXXX 2 3 3 ECO 110 Principles of Macroeconomics 3 Experiential Learning Electives (Choose courses from 1 experiential learning group) Elective 2 (T) Semester 5 XXX-XXX Semperative Education Experiential Learning Copputer Information Systems Elective 4 (B) XXX-XXX Elective 4 (B) ECO 105 Principles of Microeconomics 3 EXPPLIENTING Electives (Choose courses from 1 Experiential Learning group) Copperative Education Preparation: Computer 1 CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 ECO 105 Principles of Microeconomics 3 EXTRICTION STATES AND STATES | CPDM-XXX | | 1 | 40 | 2 | | | 'HI, RI | EL, THE | , |
| Elective 1 (T) XXX-XXX 2 3 3 ECO 110 Principles of Macroeconomics 3 Experiential Learning Electives (Choose courses from 1 experiential learning group) Elective 2 (T) Semester 5 XXX-XXX 3 0 3 CODPM 190 Cooperative Education Experiential Learning COPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management COPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management COPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management XXX-XXX Technical Concentration ECO 105 Principles of Microeconomics 3 Experiential Learning Electives (Choose courses from 1 experiential Learning COPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management COPDM 291 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management XXX-XXX Technical COPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Project-Based Experiential Learning COPDM 296 Project-Based Learning 1 2 | Experiential | | | | | | | | | |
| XXX-XXX 2 3 3 ECO 110 Principles of Macroeconomics 3 Experiential Learning Electives (Choose courses from 1 experiential learning group) Cooperative Education Experiential Learning CPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management Computer Information Systems Elective 4 (B) XXX-XXX 2 3 3 3 CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | • | | | | | | | | | |
| Technical Concentration Elective 2 (T) Semester 5 XXX-XXX Computer Information Systems Elective 4 (B) XXX-XXX Concentration Concentration Experiential Learning Electives (Choose courses from 1 experiential learning group) Cooperative Education Experiential Learning CPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 296 Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | Elective 1 (T) | | | | | ECO 105 | Principles of Microeconomics | | | 3 |
| Concentration Elective 2 (T) Semester 5 XXX-XXX 3 0 3 CPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management XXX-XXX Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management XXX-XXX Technical Concentration CPDM 296 Project-Based Learning 1 CPDM 296 Project-Based Learning 1 | XXX-XXX | | 2 | 3 | 3 | ECO 110 | Principles of Macroeconomics | | | 3 |
| Elective 2 (T) Semester 5 XXX-XXX 3 0 3 CPDM 190 Cooperative Education Preparation: Computer 1 Programming and Database Management CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management XXX-XXX Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 CPDM 296 Project-Based Learning 1 | Technical | | | | | Experiential | Learning Electives (Choose courses | from | 1 | |
| Semester 5 XXX-XXX 3 0 3 Copputer Information Systems Elective 4 (B) XXX-XXX 2 3 3 3 Froject-Based Experiential Learning COOP M 190 Cooperative Education Preparation: Computer 1 Programming and Database Management 2 Project-Based Experiential Learning 2 CPDM 296 Project-Based Learning 1 2 | | | | | | experiential | learning group) | | | |
| XXX-XXX 3 0 3 Computer Information Systems Elective 4 (B) XXX-XXX Technical Concentration Systems CPDM 291 Full-Time Cooperative Education 1: Computer 2 Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management CPDM 292 Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | Elective 2 (T) | | | | | Cooperati | ive Education Experiential Learning | | | |
| Computer Information Systems Elective 4 (B) XXX-XXX 1 2 3 3 Technical Concentration CPDM 291 Full-Time Cooperative Education 1: Computer Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer Programming and Database Management Programming and Database Management CPDM 292 Full-Time Cooperative Education 2: Computer Programming and Database Management CPDM 292 Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | Semester 5 | | | | | CPDM 190 | Cooperative Education Preparatio | n: Cor | nputer | 1 |
| Information Systems Elective 4 (B) XXX-XXX Technical Concentration Electronical Concentration Electronical Concentration Electronical Concentration Electronical Concentration Electronical Concentration Electronical CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Programming and Database Management Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | XXX-XXX | | 3 | 0 | 3 | | · | | | |
| Systems Elective 4 (B) XXX-XXX Technical Concentration Elective 4 (B) CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | Computer | | | | | CPDM 291 | Full-Time Cooperative Education | 1: Con | nputer | 2 |
| Systems Elective 4 (B) XXX-XXX Technical Concentration CPDM 292 Full-Time Cooperative Education 2: Computer 2 Programming and Database Management Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | _ | | | | | | · | | | |
| XXX-XXX 2 3 3 Technical Concentration Programming and Database Management Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | | | | | | CPDM 292 | | - | | 2 |
| Technical Concentration Project-Based Experiential Learning CPDM 296 Project-Based Learning 1 2 | ` ' |) | | | | | · | | | |
| Concentration CPDM 296 Project-Based Learning 1 2 | | | 2 | 3 | 3 | Proiect-B | | | | |
| Concentration | | | | | | | • | | | 2 |
| Elective 3 (1) CFDIVI 231 Floject-Dased Learning 2 | | | | | | | | | | |
| | Elective 3 (1) | 1 | | | | OI DIVI 231 | 1 Tojout Basou Loanning 2 | | | _ |

3

| ACC 101 | Financial Accounting | 3 |
|--------------------|---|---|
| ACC 101 ACC 102 | • | 3 |
| FIN 150 | Managerial Accounting Business Finance | 3 |
| MGT 101 | Principles of Management | (|
| LAW 101 | Business Law | , |
| HIT 100 | | |
| HIT 100 HIT 105 | Language and Culture of Healthcare Information Technology Systems in Healthcare | ; |
| HIT 210 | Healthcare Reimbursement | 3 |
| MCH 104 | | 3 |
| | Comprehensive Medical Terminology ncentration Electives (Choose courses from 1 | ` |
| | mer Concentration | |
| SET 151 | C Programming 1 (T) | 3 |
| SET 252 | C Programming 2 (T) | 3 |
| SET 253 | C Programming 3 (T) | 3 |
| Java Progr | ammer Concentration | |
| IT 161 | Java Programming 1 (T) | 3 |
| IT 162 | Java Programming 2 (T) | 3 |
| IT 262 | Java Programming 3 (T) | 3 |
| Web Progra | ammer Concentration | |
| IT 117 | Web Application Development 1 (T) | 3 |
| IT 118 | Web Application Development 2 (T) | 3 |
| IT 218 | Web Application Development 3 (T) | 3 |
| Technical Tra | ck Electives (Choose courses from 1 track) | |
| Java Progr | amming Track | |
| IT 161 | Java Programming 1 (T) | 3 |
| IT 162 | Java Programming 2 (T) | 3 |
| C Program | ming Track 1 | |
| SET 151 | C Programming 1 (T) | 3 |
| SET 252 | C Programming 2 (T) | (|
| C Program | ming Track 2 | |
| SET 252 | C Programming 2 (T) | (|
| SET 253 | C Programming 3 (T) | 3 |
| IBMi Power | rsystem Track | |
| CPDM 211 | Business Application Development 1: RPGLE/ DB2 (T) | 2 |
| CPDM 212 | Business Application Development 2: RPGLE/ DB2 (T) | 4 |
| | olication Track | |
| CPDM 230 | Mobile Application Development (T) | 4 |
| CPDM 240 | Emerging Technologies: Web and Mobile Applications (T) | 2 |
| | Networking Track | |
| NETC 121 | Network Communications 1 (T) | 3 |
| NETC 122 | Network Communications 2 (T) | (|
| _ | amming Track | |
| IT 117 | Web Application Development 1 (T) | ; |
| IT 118 | Web Application Development 2 (T) | 3 |
| | Analytics Track | |
| IT 112 | Database Design and Management (T) | (|
| 11 112 | Database Beergit and Management (1) | |

IT 212 Business Intelligence, Data Warehousing, and Reporting (**T**)

Computer Programming and Database Management (CIS, CSD, SET)

- Ability to collect, disseminate, analyze, and apply the requirements for a specific software development project.
- Ability to write, test, and maintain software applications utilizing current and relevant programming languages.
- Ability to design and implement a normalized relational database(s) to meet the needs of the software development project.
- Ability to effectively utilize databases and database management systems to organize, store, and retrieve data for use in application software.
- Ability to create application software that is intuitive for a wide range of users.
- Ability to effectively articulate ideas, recommendations, and solutions.
- · Ability to lead and/or participate effectively in teams.
- Ability to utilize appropriate resources to broaden individual knowledge and to apply the industry's latest development tools, techniques, and standards.

Faculty

Program Chair/Advisor

Professor Robert Nields, MBA robert.nields@cincinnatistate.edu

Co-op Coordinator

Noelle Grome, MEd, MS noelle.grome@cincinnatistate.edu

Computer Software Development Major and Computer Software Development Certificate (CSD & CSDC)

Computer Programming and Database Management - Computer Software Development Major (CSD)

The Computer Programming and Database Management - Computer Software Development Major (CSD) is an online degree that focuses on the design, development, implementation, and maintenance of software used in a variety of industries. Students gain knowledge of computer operating systems and software development using several programming languages.

Graduates earn an Associate of Applied Science degree and are prepared to enter the workforce as skilled computer programmers and systems integrators. Graduates may continue their education in a bachelor's degree program in computer science, information systems, business informatics, or business administration.

The Computer Software Development Major is primarily offered as an online degree for students who seek that instructional method. Some of the required courses can be taken through in-person classes.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Software Development Certificate (CSDC)

The Computer Software Development Certificate assists individuals seeking computer skills needed in a variety of industries, focusing on current software development languages, object-oriented programming concepts, and database theory.

The certificate is intended for experienced programmers looking to update or enhance their skills, or for individuals preparing to enter the information technology field who already have a bachelor's degree in another discipline.

The certificate can be completed in three semesters, and all courses are offered through online education.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Software Development Major (CSD)

| Semester 1 | | Lec | Lab Cre | edits |
|--|---|-----|---------|-------|
| FYE 100 | College Survival Skills (B) | 1 | 0 | 1 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IT 100 | Computer Programming Foundations (B) | 2 | 3 | 3 |
| PHI 110 | Ethics (G) | 3 | 0 | 3 |
| MAT XXX Mathematics Elective (G) | | 2 | 2 | 3 |
| Semester 2 | | | | |
| IT 101 | Programming 1 (B) | 2 | 3 | 3 |
| IT 111 | Database Design and SQL 1 (B) | 2 | 3 | 3 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| CPDM 210 | System Analysis and Design (T) | 2 | 3 | 3 |
| Semester 3 | | | | |
| IT 102 | Programming 2 (B) | 2 | 3 | 3 |
| IT 117 | Web Application Development 1 (T) | 2 | 3 | 3 |

| XXX XXX | 2 | 3 | 3 |
|--|----|----|----|
| Technical | | | |
| Track | | | |
| Elective 1 (T) | | | _ |
| SET 151 C Programming 1 (T) | 2 | 3 | 3 |
| Semester 4 | | | |
| IT 161 Java Programming 1 (T) | 2 | 3 | 3 |
| IT 118 Web Application Development 2 (| 2 | 3 | 3 |
| T) | | | |
| XXX XXX | 2 | 3 | 3 |
| Technical | | | |
| Track | | | |
| Elective 2 (T) | | | |
| SET 252 C Programming 2 (T) | 2 | 3 | 3 |
| Semester 5 | | | |
| IT 218 Web Application Development 3 (| 2 | 3 | 3 |
| T) | | | |
| IT 162 Java Programming 2 (T) | 2 | 3 | 3 |
| CPDM 290 Computer Programming and | 2 | 3 | 3 |
| Database Management Capstone | | | |
| (T) | | | |
| ECO XXX | 3 | 0 | 3 |
| Economics | | | |
| Elective (G) | | | |
| Total Credits: | 45 | 47 | 61 |

Electives

CPDM 291

CPDM 292

| Mather | natics | Fle | ctive |
|---------|--------|-----|-------|
| Maillei | แลแบอ | | CLIVE |

| Mathematics El | ective | |
|------------------------|---|---|
| MAT 121 | Technical Algebra and Geometry with Statistics * | 3 |
| MAT 125 | Algebra and Trigonometry * | 4 |
| MAT 131 | Statistics 1 | 3 |
| MAT 151 | College Algebra | 4 |
| Economics Elec | ctive | |
| ECO 105 | Principles of Microeconomics | 3 |
| ECO 110 | Principles of Macroeconomics | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Technical Track | Electives (Choose courses from 1 track) | |
| Database An | alytics Track | |
| IT 112 | Database Design and Management (T) | 3 |
| IT 212 | Business Intelligence, Data Warehousing, and Reporting (T) | 3 |
| • | Learning Track (Choose courses from 1 earning group) | |
| Cooperative | Education Experiential Learning | |
| CPDM 190 | Cooperative Education Preparation: Computer Programming and Database Management | 1 |

Full-Time Cooperative Education 1: Computer Programming and Database Management

Full-Time Cooperative Education 2: Computer

Programming and Database Management

2

Project-Based Experiential Learning

| CPDM 296 | Project-Based Learning 1 (T) | 2 |
|----------|------------------------------|---|
| CPDM 297 | Project-Based Learning 2 (T) | 2 |

^{*} Not available online

Computer Software Development Certificate (CSDC)

| First Year | | | | |
|----------------------|----------------------------|-----|-------|--------|
| Semester 1 | | Lec | Lab C | redits |
| IT 101 | Programming 1 | 2 | 3 | 3 |
| IT 111 | Database Design and SQL 1 | 2 | 3 | 3 |
| Semester 2 | | | | |
| IT 102 | Programming 2 | 2 | 3 | 3 |
| XXX-XXX | | 2 | 3 | 3 |
| Technical | | | | |
| Track | | | | |
| Elective 1 | | | | |
| Semester 3 | | | | |
| CPDM 210 | System Analysis and Design | 2 | 3 | 3 |
| XXX-XXX | | 2 | 3 | 3 |
| Technical | | | | |
| Track | | | | |
| Elective 2 | | | | |
| Total Credits | • | 12 | 18 | 18 |

Electives

Technical Track Electives (Choose courses from 1 track)

| Java Prog | ramming Track | |
|-----------|-------------------------------|---|
| IT 161 | Java Programming 1 | 3 |
| IT 162 | Java Programming 2 | 3 |
| C Program | nming Track | |
| SET 252 | C Programming 2 | 3 |
| SET 253 | C Programming 3 | 3 |
| Web Appl | ication Programming Track | |
| IT 117 | Web Application Development 1 | 3 |
| IT 118 | Web Application Development 2 | 3 |
| | | |

Computer Programming and Database Management (CIS, CSD, SET)

- Ability to collect, disseminate, analyze, and apply the requirements for a specific software development project.
- Ability to write, test, and maintain software applications utilizing current and relevant programming languages.
- Ability to design and implement a normalized relational database(s) to meet the needs of the software development project.
- Ability to effectively utilize databases and database management systems to organize, store, and retrieve data for use in application software.
- Ability to create application software that is intuitive for a wide range of users.
- Ability to effectively articulate ideas, recommendations, and solutions.

- Ability to lead and/or participate effectively in teams.
- Ability to utilize appropriate resources to broaden individual knowledge and to apply the industry's latest development tools, techniques, and standards.

Faculty

Program Chair/Advisor

Professor Robert Nields, MBA robert.nields@cincinnatistate.edu

Co-op Coordinator

Professor Andrea Feld, BA andrea.feld@cincinnatistate.edu

Software Engineering Technology Major (SET)

Computer Programming and Database Management - Software Engineering Technology Major (SET)

The Computer Programming and Database Management - Software Engineering Technology Major (SET) focuses on the design, development, implementation, and maintenance of software used in a variety of industries.

Students gain knowledge of computer operating systems and software development using several programming languages. Students also gain knowledge of core math and science concepts and skills.

Graduates earn an Associate of Applied Science degree and are prepared to enter the workforce as skilled computer programmers and systems integrators. Graduates may continue their education in a bachelor's degree program in engineering, engineering technology, mathematics, or computer science.

Although some required courses are available through evening and/ or online classes, most of the required courses for the Software Engineering Technology Major are scheduled on Monday through Friday between 8 a.m. and 5 p.m.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Software Engineering Technology Major (SET)

| Semester 1 | | Lec | Lab Cı | edits |
|--------------|----------------------------|-----|--------|-------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MAT XXX | | 3 | 0 | 3 |
| Mathematics | | | | |
| Elective (G) | | | | |

| IT 100 | Computer Programming | 2 | 3 | 3 | ENG-10X | | 3 | 0 | 3 |
|--------------------------|---|---|----|---|--------------------------------------|--------------------------------------|---------|----------|-----|
| | Foundations (B) | | | | English | | | | |
| XXX- | | 3 | 0 | 3 | Composition Elective (G) | | | | |
| XXX Arts/ Humanities | | | | | Semester 6 | | | | |
| Elective (G) | | | | | | | | 40 | _ |
| Semester 2 | | | | | XXX-XXX | | 1 | 40 | 2 |
| | Day 200 200 (200 4 / D) | 0 | 0 | 0 | Experiential Learning | | | | |
| IT 101 | Programming 1 (B) | 2 | 3 | 3 | Elective 2 (T) | | | | |
| IT 111 | Database Design and SQL 1 (B) | 2 | 3 | 3 | CPDM 290 | Computer Programming and | 2 | 3 | 3 |
| XXX-XXX | | 3 | 3 | 4 | OI DIVI 250 | Database Management Capstone | _ | 5 | 3 |
| Software Engineering | | | | | | (T) | | | |
| Technology | | | | | Total Credits: | | 49 | 122 | 65 |
| Elective 1 (B |) | | | | . o.a. o. oano. | | | | |
| CPDM 210 | System Analysis and Design (T) | 2 | 3 | 3 | Electives | 6 | | | |
| Semester 3 | | | | | First Year Fy | perience Elective | | | |
| IT 102 | Programming 2 (T) | 2 | 3 | 3 | FYE 100 | College Survival Skills | | | 1 |
| XXX-XXX | 1 10g.c | 3 | 3 | 4 | FYE 105 | College Success Strategies | | | 2 |
| Software | | 3 | 3 | 7 | | 0 0 | | | |
| Engineering | | | | | FYE 110 | Community College Experience | | | 3 |
| Technology | | | | | Mathematics | | | | |
| Elective 2 (B |) | | | | MAT 121 | Technical Algebra and Geometry w | vith St | atistics | 3 |
| XXX-XXX | | 2 | 3 | 3 | MAT 125 | Algebra and Trigonometry | | | 4 |
| Technical | | | | | MAT 131 | Statistics 1 | | | 3 |
| Concentratio | | | | | MAT 151 | College Algebra | | | 4 |
| Elective 1 (T) |) | | | | English Com | position Elective | | | |
| XXX-XXX | | 2 | 3 | 3 | ENG 102 | English Composition 2: Contempor | rary Is | sues | 3 |
| Technical | | | | | ENG 103 | English Composition 2: Writing abo | out Lit | erature | 3 |
| Track | | | | | ENG 104 | English Composition 2: Technical | | | 3 |
| Elective 1 (T) |) | | | | | Communication | | | |
| Semester 4 | | | | | ENG 105 | English Composition 2: Business C | Comm | unicatio | n 3 |
| XXX-XXX | | 1 | 40 | 2 | Arts/Humani | ties Elective | | | |
| Experiential Learning | | | | | Any Transfer | Module course from ART, LIT, MUS, Pl | HI, RE | EL, THE | |
| Elective 1 (T) |) | | | | or COMM 130 | | • | | |
| XXX-XXX | , | 2 | 3 | 3 | Economics E | Elective | | | |
| Technical | | _ | 3 | 3 | ECO 105 | Principles of Microeconomics | | | 3 |
| Concentratio | n | | | | ECO 110 | Principles of Macroeconomics | | | 3 |
| Elective 2 (T) |) | | | | | Learning Electives (Choose courses | from | 1 | _ |
| Semester 5 | | | | | | learning group) | | • | |
| XXX-XXX | | 3 | 3 | 4 | - | ve Education Experiential Learning | | | |
| Software | | | | | CPDM 190 | Cooperative Education Preparation | n: Con | nputer | 1 |
| Engineering | | | | | 0. 5 100 | Programming and Database Mana | | • | • |
| Technology | | | | | CPDM 291 | Full-Time Cooperative Education 1 | - | | 2 |
| Elective 3 (B |) | | | | 0. 2 20 . | Programming and Database Mana | | • | _ |
| XXX-XXX | | 2 | 3 | 3 | CPDM 292 | Full-Time Cooperative Education 2 | : Con | nputer | 2 |
| Technical | | | | | | Programming and Database Mana | | | |
| Concentratio | | | | | Project-Ba | ased Experiential Learning | - | | |
| Elective 3 (T) |) | _ | 0 | 0 | CPDM 296 | Project-Based Learning 1 | | | 2 |
| XXX-XXX Technical | | 2 | 3 | 3 | CPDM 297 | Project-Based Learning 2 | | | 2 |
| Track | | | | | | gineering Technology Electives (Cho | nose 3 | 1 | _ |
| Elective 2 (T) |) | | | | courses) | gg roomiology Electives (Olio | | | |
| XXX-XXX | | 3 | 0 | 3 | BIO 131 | Biology 1 | | | 5 |
| Economics | | - | - | - | CHE 110 | Fundamentals of Chemistry | | | 4 |
| Elective (G) | | | | | CHE 111 | Bio-Organic Chemistry | | | 4 |
| | | | | | MAT 126 | Functions and Calculus | | | |
| | | | | | IVIA I 120 | i dilottoris and Calculus | | | 4 |

| MAT 251 | Calculus 1 | 5 |
|---------------|--|---|
| MAT 252 | Calculus 2 | 5 |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 152 | Physics 2: Algebra and Trigonometry-Based | 4 |
| Technical Cor | ncentration Electives (Choose 1 concentration) | |
| C Program | mer Concentration | |
| SET 151 | C Programming 1 (T) | 3 |
| SET 252 | C Programming 2 (T) | 3 |
| SET 253 | C Programming 3 (T) | 3 |
| Java Progr | ammer Concentration | |
| IT 161 | Java Programming 1 (T) | 3 |
| IT 162 | Java Programming 2 (T) | 3 |
| IT 262 | Java Programming 3 (T) | 3 |
| Web Progra | ammer Concentration | |
| IT 117 | Web Application Development 1 (T) | 3 |
| IT 118 | Web Application Development 2 (T) | 3 |
| IT 218 | Web Application Development 3 (T) | 3 |
| Technical Tra | ck Electives (Choose courses from 1 track) | |
| Java Progr | amming Track | |
| IT 161 | Java Programming 1 (T) | 3 |
| IT 162 | Java Programming 2 (T) | 3 |
| C Program | ming Track 1 | |
| SET 151 | C Programming 1 (T) | 3 |
| SET 252 | C Programming 2 (T) | 3 |
| C Program | ming Track 2 | |
| SET 252 | C Programming 2 (T) | 3 |
| SET 253 | C Programming 3 (T) | 3 |
| IBMi Power | rsystem Track | |
| CPDM 211 | Business Application Development 1: RPGLE/ DB2 (T) | 4 |
| CPDM 212 | Business Application Development 2: RPGLE/ DB2 (T) | 4 |
| Mobile App | olication Track | |
| CPDM 230 | Mobile Application Development (T) | 4 |
| CPDM 240 | Emerging Technologies: Web and Mobile Applications (T) | 4 |
| Computer I | Networking Track | |
| NETC 121 | Network Communications 1 (T) | 3 |
| NETC 122 | Network Communications 2 (T) | 3 |
| Web Progra | amming Track | |
| IT 117 | Web Application Development 1 (T) | 3 |
| IT 118 | Web Application Development 2 (T) | 3 |
| Database A | Analytics Track | |
| IT 112 | Database Design and Management (T) | 3 |
| IT 212 | Business Intelligence, Data Warehousing, and Reporting (T) | 3 |
| | | |

Computer Programming and Database Management (CIS, CSD, SET)

- Ability to collect, disseminate, analyze, and apply the requirements for a specific software development project.
- Ability to write, test, and maintain software applications utilizing current and relevant programming languages.

- Ability to design and implement a normalized relational database(s) to meet the needs of the software development project.
- Ability to effectively utilize databases and database management systems to organize, store, and retrieve data for use in application software.
- Ability to create application software that is intuitive for a wide range of users.
- Ability to effectively articulate ideas, recommendations, and solutions.
- · Ability to lead and/or participate effectively in teams.
- Ability to utilize appropriate resources to broaden individual knowledge and to apply the industry's latest development tools, techniques, and standards.

Faculty

Program Chair/Advisor

Professor Robert Nields, MBA robert.nields@cincinnatistate.edu

Co-op Coordinator

Professor Noelle Grome, ME, MA noelle.grome@cincinnatistate.edu

Electrical Engineering Technologies

The Electrical Engineering Technologies program offers three majors that address needs of today's industry.

- Electrical Engineering Technology Biomedical Equipment
 Major (BMT) prepares graduates to work for hospitals or medical
 device manufacturers. The program provides knowledge of
 electronics and computer networking systems and a specialization
 in medical instrumentation.
- Electrical Engineering Technology Electronics Systems
 Major (ESET) provides graduates with knowledge and skills
 in analog and digital electronics, microprocessor systems,
 computer hardware and software, computer applications, network
 communications, programmable logic devices, remote control
 systems, and video systems.
- Electrical Engineering Technology Power Systems Major (PSET) prepares graduates to meet current and future needs related to technical support for utility companies, electrical contractors, HVAC contractors, and industrial electrical design and maintenance firms.

All three majors lead to an Associate of Applied Science degree, and prepare graduates to successfully pursue a bachelor's degrees and to enter the workforce and advance professionally.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Electrical Engineering Technology - Biomedical Equipment Major (BMT)

Electrical Engineering Technology - Biomedical Equipment Major (BMT)

Graduates of the program Electrical Engineering Technology
- Biomedical Equipment Major are welcomed in hospitals and
companies where medical equipment is designed, tested, installed,
and operated because of their strong background in electronics and
information systems along with knowledge of specialized biomedical
equipment.

Graduates of the Biomedical Equipment Major earn an Associate of Applied Science degree and are prepared to take on the challenging tasks of hospital healthcare technology management, maintaining multi-million dollar equipment, such as MRI, CT, sonogram, X-ray, and other medical equipment. The curriculum also provides an effective foundation for transfer into a related bachelor's degree program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electrical Engineering Technology - Biomedical Equipment Major (BMT)

| Semester 1 | | Lec | Lab Cr | edits |
|--|---|-----|--------|-------|
| EET 131 | Circuit Analysis 1 (B) | 3 | 2 | 4 |
| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| EET 132 | Circuit Analysis 2 (T) | 3 | 2 | 4 |
| CIT 190 | Career Preparation: Engineering and Information Technologies (B) | 1 | 0 | 1 |
| EET 121 | Digital Systems 1 (T) | 2 | 3 | 3 |
| BMT 161 | Biomedical Instrumentation 1 (T) | 3 | 3 | 4 |
| Semester 3 | | | | |
| EET 291 | Full-Time Cooperative Education 1: Electronics Engineering Technology (T) | 1 | 40 | 2 |
| NETC 121 | Network Communications 1 (B) | 2 | 2 | 3 |
| MAT XXX Mathematics Elective 2 (B) |) | 3 | 2 | 4 |
| Semester 4 | | | | |

| BIO 117 | Human Body in Health and Disease (B) | 3 | 0 | 3 |
|----------------------------------|--|----------|-----------|----|
| ESET 251 | Electronics (T) | 3 | 2 | 4 |
| PHY XXX | | 3 | 2 | 4 |
| Physics | | | | |
| Elective (G) | | | | |
| EET 122 | Digital Systems 2 (T) | 2 | 3 | 3 |
| Semester 5 | | | | |
| ENG 10X | | 3 | 0 | 3 |
| English Elective (G) | | | | |
| BMT 262 | Biomedical Instrumentation 2 (T) | 3 | 3 | 4 |
| EMET XXX | Diomedical instrumentation 2 (1) | 2 | 3 | 3 |
| Electro- | | _ | O | Ü |
| Mechanical | | | | |
| Engineering | | | | |
| Technology | | | | |
| Elective (T) | | 0 | 0 | 0 |
| EET XXX Electrical | | 2 | 3 | 3 |
| Engineering | | | | |
| Technology | | | | |
| Elective 1 (T) | | | | |
| Semester 6 | | | | |
| EET XXX | | 1 | 40 | 2 |
| Electrical | | | | |
| Engineering Technology | | | | |
| Elective 2 (T) | | | | |
| ECO 10X | | 3 | 0 | 3 |
| Economics | | | | |
| Elective (G) | | | | |
| Total Credits: | | 50 | 112 | 65 |
| Electives | | | | |
| Mathematics | | | | 8 |
| | he following series: | | | |
| | Algebra and Trigonometry | | | |
| & MAT 126 | and Functions and Calculus | | | |
| Or MAT 251 | Calculus 1 | | | |
| & MAT 251 | | | | |
| | perience Elective | | | |
| FYE 100 | College Survival Skills | | | 1 |
| FYE 105 | College Success Strategies | | | 2 |
| FYE 110 | Community College Experience | | | 3 |
| Physics Elec | , , | | | |
| PHY 151 | Physics 1: Algebra and Trigonome | etry-Ba | sed | 4 |
| PHY 201 | Physics 1: Calculus-Based | | | 5 |
| English Com | position Elective | | | |
| ENG 102 | English Composition 2: Contempo | orary Is | sues | 3 |
| ENG 103 | English Composition 2: Writing ab | - | | 3 |
| ENG 104 | English Composition 2: Technical Communication | | | 3 |
| ENG 105 | English Composition 2: Business | Comm | unication | 3 |
| Electro-Mech | nanical Engineering Technology Ele | | | 3 |
| | | | | |

| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics | 3 |
|-----------------------|--|---|
| EMET 245 | Laser 1 | 3 |
| EMET 270 | Robotics and Servomechanisms | 4 |
| Electrical Eng | ineering Technology Electives | 3 |
| Any EET (2XX | level) | |
| or, Any ESET | (2XX level) | |
| or, Any PSET | | |
| | not used to fulfill the Electro-Mechanical echnology Elective | |
| Economics El | ective | |
| ECO 105 | Principles of Microeconomics | 3 |
| ECO 110 | Principles of Macroeconomics | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Electrical Engineering Technology - Biomedical Equipment Major (BMT)

- Ability to select and apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
- Ability to function effectively as a member or leader on a technical team.
- Ability to apply written, oral, and graphical communication in both technical and non-technical environments; and ability to identify and use appropriate technical literature.
- Ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
- Commitment to quality, timeliness, and continuous improvement.
- Ability to apply project management techniques to electrical/ electronic(s)/biomedical systems development.
- Proficiency in the application of circuit analysis and design, network systems, healthcare software, analog and digital electronics, electric motor technology, and engineering standards to the building, testing, operation, and maintenance of electrical, electronic, and biomedical systems.
- Proficiency in using exceptional troubleshooting skills based on hands-on knowledge of key biomedical instrumentation.

Faculty

Program Chair

Dr. Ralph Whaley, Jr., PhD ralph.whaley@cincinnatistate.edu

Co-op Coordinator

Professor Kimberly Richards, PhD

kimberly.richards@cincinnatistate.edu

Electrical Engineering Technology - Electronics Systems Major (ESET)

Electrical Engineering Technology - Electronics Systems Major (ESET)

Graduates of the Electrical Engineering Technology - Electronics Systems Major are prepared to pursue careers in diverse engineeringrelated fields such as computer design and repair, digital systems, microcomputer systems, microelectronics, and telecommunications.

Graduates earn an Associate of Applied Science degree. The curriculum also provides an effective foundation for transfer into a related bachelor's degree program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electrical Engineering Technology - Electronics Systems Major (ESET)

| Semester 1 | | Lec | Lab Cr | redits |
|--|---|-----|--------|--------|
| EET 131 C | ircuit Analysis 1 (B) | 3 | 2 | 4 |
| ENG 101 E | nglish Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience (B) | | 1 | 0 | 1 |
| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
| Semester 2 | | | | |
| EET 121 D | igital Systems 1 (T) | 2 | 3 | 3 |
| EET 132 C | ircuit Analysis 2 (T) | 3 | 2 | 4 |
| | areer Preparation: Engineering nd Information Technologies (B) | 1 | 0 | 1 |
| MAT XXX Mathematics Elective 2 (B) | | 3 | 2 | 4 |
| Semester 3 | | | | |
| 1: | ull-Time Cooperative Education : Electronics Engineering echnology (T) | 1 | 40 | 2 |
| NETC 121 N | etwork Communications 1 (B) | 2 | 2 | 3 |
| PHY XXX Physics Elective (G) Semester 4 | | 3 | 2 | 4 |
| | igital Systems 2 (T) | 2 | 3 | 3 |
| | lectronics (T) | 3 | 3 | 4 |

| IT 101 | Programming 1 (B) | 2 | 3 | 3 |
|--|---|----|-----|----|
| ENG 10X English Elective (G) | | 3 | 0 | 3 |
| Semester 5 | | | | |
| ESET 290 | Electronic Systems Engineering Technology Capstone Project (T) | 2 | 4 | 4 |
| ESET 220 | Microprocessor Systems (T) | 3 | 3 | 4 |
| EMET XXX Electro- | | 2 | 3 | 3 |
| Mechanical Engineering Technology Elective (T) | | | | |
| EET XXX Electrical Engineering | | 2 | 3 | 3 |
| Techology Elective 1 (T) | | | | |
| Semester 6 | | | | |
| EET XXX Electrical Engineering | | 1 | 40 | 2 |
| Technology | | | | |
| Elective 2 (T) | | | | |
| ECO 1XX | | 3 | 0 | 3 |
| Economics Elective (G) | | | | |
| Total Credits: | | 48 | 117 | 65 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|------------------------|--|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics El | ective | 8 |
| Take one of the | following series: | |
| MAT 125 & MAT 126 | Algebra and Trigonometry and Functions and Calculus | |
| Or | | |
| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 | |
| Physics Electiv | e | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Electro-Mechan | ical Engineering Technology Elective | |
| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics | 3 |
| EMET 245 | Laser 1 | 3 |

| EMET 270 | Robotics and Servomechanisms | 4 | | |
|-----------------------|---|---|--|--|
| Electrical Eng | Electrical Engineering Technology Electives | | | |
| Any EET (2XX | level) | | | |
| or, Any ESET | (2XX level) | | | |
| or, Any PSET | | | | |
| | not used to fulfill the Electro-Mechanical echnology Elective | | | |
| Economics El | ective | | | |
| ECO 105 | Principles of Microeconomics | 3 | | |
| ECO 110 | Principles of Macroeconomics | 3 | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Electrical Engineering Technology - Electronics Systems Major (ESET)

- Ability to select and apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
- Ability to function effectively as a member or leader on a technical team.
- Ability to apply written, oral, and graphical communication in both technical and non-technical environments; and ability to identify and use appropriate technical literature.
- Ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
- Commitment to quality, timeliness, and continuous improvement.
- Ability to apply project management techniques to electrical/ electronic(s) systems development.
- Proficiency in the application of circuit analysis and design, computer programming, associated software, analog and digital electronics, microcontroller technology, and engineering standards to the building, testing, operation, and maintenance of electrical/ electronic(s) systems.
- Ability to integrate and synthesize technical information to resolve discrepancies requiring electrical or electronic knowledge.

Faculty

Program Chair

Dr. Ralph Whaley, Jr., PhD ralph.whaley@cincinnatistate.edu

Co-op Coordinator

Professor Kimberly Richards, PhD kimberly.richards@cincinnatistate.edu

Electrical Engineering Technology - Power Systems Major (PSET)

Electrical Engineering Technology - Power Systems Major (PSET)

Power systems engineers monitor and maintain the quality, availability, reliability, transferability, and safety of the power systems we rely on daily, including smart grid technologies for distributed power generation and smart transmission line system technology.

Graduates of the program Electrical Engineering Technology - Power System Major earn an Associate of Applied Science degree, and have the skills and competencies needed to begin careers and advance professionally through technical and management positions in the power systems or electrical engineering fields.

Possible employers include utility companies, industrial organizations, consultants, and other service providers. Graduates also are prepared to continue their studies in a bachelor's degree program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electrical Engineering Technology - Power Systems Major (PSET)

| Semester 1 | | Lec | Lab Cr | edits |
|--|--|-----|--------|-------|
| EET 131 | Circuit Analysis 1 (B) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 10X First Year Experience Elective (B) | | 1 | 0 | 1 |
| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
| PSET 110 | Power Systems Computer Aided Drafting (B) | 2 | 3 | 3 |
| Semester 2 | | | | |
| EET 132 | Circuit Analysis 2 (T) | 3 | 2 | 4 |
| MAT XXX Mathematics Elective 2 (B) | | 3 | 2 | 4 |
| CIT 190 | Career Preparation: Engineering and Information Technologies (B) | 1 | 0 | 1 |
| EET 121 | Digital Systems 1 (B) | 2 | 3 | 3 |
| PSET 140 | Power Systems Foundations (T) | 2 | 2 | 3 |
| Semester 3 | | | | |
| EET 291 | Full-Time Cooperative Education 1: Electronics Engineering Technology (T) | 1 | 40 | 2 |

| Semester 4 | | 0 | 0 | 0 |
|-----------------------|--|----|-----|----|
| ENG 10X English | | 3 | 0 | 3 |
| Composition | | | | |
| Elective (G) | | | | |
| PSET 225 | Industrial and Commercial Power | 3 | 3 | 4 |
| | Design (T) | | | |
| EMET 240 | Programmable Logic Controllers, | 2 | 3 | 3 |
| | Motors, Motor Controls, and | | | |
| DUN YYY | Kinematics (T) | 0 | 0 | |
| PHY XXX Physics | | 3 | 3 | 4 |
| Elective (G) | | | | |
| PSET 250 | Power Transmission and | 2 | 3 | 3 |
| | Distribution Design (T) | | | |
| Semester 5 | | | | |
| ECO 1XX | | 3 | 0 | 3 |
| Economics | | | | |
| Elective (G) | | | | |
| EMET 180 | Process Instrumentation (T) | 2 | 3 | 3 |
| PSET 275 | Protective Relays and Controls (| 2 | 3 | 3 |
| DOFT | T) | | _ | |
| PSET 290 | Power Systems Capstone (T) | 1 | 2 | 2 |
| NETC 121 | Network Communications 1 (T) | 2 | 2 | 3 |
| Semester 6 | | | | |
| EET 292 | Full-Time Cooperative Education | 1 | 40 | 2 |
| | 2: Electronics Engineering Technology (T) | | | |
| Total Credits: | | 48 | 118 | 65 |
| rotal Ciedits. | | 40 | 110 | 03 |

Electives

| Mathematics El | ectives | 8 |
|-----------------------|---|---|
| Select one of the | e following series: | |
| MAT 125 & MAT 126 | Algebra and Trigonometry and Functions and Calculus | |
| Or | | |
| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 | |
| First Year Expe | rience Elective | |
| FYE 100 | College Survival Skills | 1 |
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Physics Electiv | е | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| Economics Elec | ctive | |
| ECO 105 | Principles of Microeconomics | 3 |
| ECO 110 | Principles of Macroeconomics | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Electrical Engineering Technology - Power Systems Major (PSET)

- Ability to select and apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
- Ability to function effectively as a member or leader on a technical team.
- Ability to apply written, oral, and graphical communication in both technical and non-technical environments; and ability to identify and use appropriate technical literature.
- Ability to conduct standard tests and measurements; to conduct, analyze. and interpret experiments; and to apply experimental results to improve processes.
- · Commitment to quality, timeliness, and continuous improvement.
- Ability to apply project management techniques to electrical/ electronic(s) systems development.
- Proficiency in the application of circuit analysis and design, utilization of network systems, associated software, analog and digital electronics, multiphase analysis, and power systems standards/codes to the building, testing, operation, and maintenance of high power distribution systems.
- Ability to integrate and synthesize technical information to resolve discrepancies requiring electrical or electronic knowledge.

Faculty

Program Chair

Dr. Ralph Whaley, Jr., PhD ralph.whaley@cincinnatistate.edu

Co-op Coordinator

Professor Kimberly Richards, PhD kimberly.richards@cincinnatistate.edu

Advisor

Russell Campbell, MBA, MSE, PE russell.campbell@cincinnatistate.edu

Electro-Mechanical Engineering Technologies

Electro-Mechanical Engineering Technologies programs prepare graduates, through study of electronics and technical systems, to work in an industrial setting where automation, robotics, controls, and systems integration are used.

Electro-Mechanical Engineering Technologies programs include three associate degree programs and two certificates:

- Electro-Mechanical Engineering Technology (EMET)
- Electro-Mechanical Engineering Technology Energy Major (EMETE)
- Electro-Mechanical Engineering Technology Laser Major (EMETL)
- Building Automation Systems Certificate (BASC)
- Laser Certificate (EMETLC)

These programs address the needs of growing industries in Ohio and the region, including manufacturing of photovoltaic electric panels, wind turbines, and fuel cells; installing and servicing photovoltaic and wind turbine systems; assisting energy efficiency companies and consultants; and using lasers and electro-optics systems in automated manufacturing and research environments.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Electro-Mechanical Engineering Technology (EMET)

Electro-Mechanical Engineering Technology (EMET)

The Electro-Mechanical Engineering Technology program at Cincinnati State is the largest of its kind in Ohio. The program combines electronics engineering technology and mechanical engineering technology, so students develop skills that are highly valued by industrial firms, including a focus on industrial automation. Students gain competencies in controlling systems, linking software and hardware maintaining systems, and improving machines and systems.

Graduates earn an Associate of Applied Science degree and are also prepared to pursue a bachelor's degree in fields such as electronics engineering, electrical engineering, or electro-mechanical engineering.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electro-Mechanical Engineering Technology (EMET)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|--|-----|--------|-------|
| EMET 150 | Introduction to Controls and Robotics (B) | 1 | 2 | 2 |
| CIT 105 | OSHA 10 General Industry Safety (B) | 1 | 0 | 1 |
| EET 131 | Circuit Analysis 1 (T) | 3 | 2 | 4 |
| PSET 110 | Power Systems Computer Aided Drafting (B) | 2 | 3 | 3 |

| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
|--|---|----|-----|----|
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| EMET 180 | Process Instrumentation (T) | 2 | 3 | 3 |
| EET 132 | Circuit Analysis 2 (T) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MET 111 | Manufacturing Processes 1 (B) | 2 | 3 | 3 |
| MAT XXX | | 3 | 2 | 4 |
| Mathematics Elective 2 (B) | | | | |
| Semester 3 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Cooperative Education or Transfer Elective 1 (T) | | | | |
| Semester 4 | | | | |
| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics (T) | 2 | 3 | 3 |
| EMET 245 | Laser 1 (T) | 2 | 3 | 3 |
| PHY XXX Physics Elective (G) | | 3 | 3 | 4 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| Semester 5 | | | | |
| EMET 270 | Robotics and Servomechanisms (T) | 3 | 3 | 4 |
| EMET 275 | Electric Drive Mechanisms (T) | 3 | 3 | 4 |
| MET 150 | Statics and Strength of Materials for MET (T) | 2 | 3 | 3 |
| XXX XXX Arts/ | . , | 3 | 0 | 3 |
| Humanities or Social/ Behavioral Science Elective (G) | | | | |
| Semester 6 | | | | |
| XXX XXX Cooperative Education or Transfer Elective 2 (T) | | 1 | 40 | 2 |
| Total Credits: | | 47 | 117 | 63 |
| Total Orealts. | | 71 | 111 | 00 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------------|--|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics Ele | ectives | 8 |
| Select one of the | following series: | |
| MAT 125 & MAT 126 | Algebra and Trigonometry and Functions and Calculus | |
| Or | | |
| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 | |
| Physics Elective | | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| Arts/Humanities | or Social/Behavioral Science Elective | |
| Any ECO, GEO, | HST, LBR, LIT, PHI | |
| Cooperative Edu | ucation or Transfer Electives * | |
| EMET 291 | Full-Time Cooperative Education 1: Electro- Mechanical Engineering Technology | 2 |
| EMET 292 | Full-Time Cooperative Education 2: Electro- Mechanical Engineering Technology | 2 |
| EET 121 | Digital Systems 1 | 3 |
| ESET 251 | Electronics | 4 |
| MET 140 | Engineering Materials | 3 |
| * Program Cha | ir approval is required for students planning to take | |

a Transfer Elective course rather than participate in cooperative education.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Electro-Mechanical Engineering Technologies (EMET, EMETE, EMETL)

- Demonstrate ability to communicate as an individual, as well as function effectively on teams by applying oral and written skills.
- Demonstrate knowledge of the importance of quality, timeliness, and continuous improvement.
- Demonstrate appropriate mastery of circuit analysis.
- Demonstrate appropriate mastery of CAD.
- Demonstrate ability to identify, analyze, and creatively solve technical and design problems.
- Demonstrate ability to apply fundamental knowledge to conduct experiments, analyze data, interpret data, and apply results to improve processes.

- Demonstrate appropriate mastery of programmable controllers and motor control systems.
- Demonstrate appropriate mastery of programming robots.
- Complete and pass an OSHA 10 General Industry course.

Faculty

Program Chair/Advisor

Professor Lawrence (Larry) Feist, BS lawrence.feist@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed. sue.dolan@cincinnatistate.edu

Electro-Mechanical Engineering Technology - Energy Major (EMETE)

Electro-Mechanical Engineering Technology - Energy Major (EMETE)

Graduates of the program Electro-Mechanical Engineering Technology - Energy Major are prepared to address the needs of several related and growing industries related to energy efficiency and reduction of energy use in commercial and industrial applications.

Students work with building automation control technologies that provide data-driven services to help create high performance buildings with reduced costs, better indoor environments, and smaller environmental footprints.

Students also complete foundation studies in traditional electromechanical engineering technology.

Program graduates earn an Associate of Applied Science degree and are also prepared to pursue a bachelor's degree in fields such as electro-mechanical engineering technologies or electronics engineering technologies.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electro-Mechanical Engineering Technology—Energy Major (EMETE)

| Semester 1 | | Lec | Lab Cr | edits |
|-----------------|---------------------------------|-----|--------|-------|
| EMET 150 | Introduction to Controls and | 1 | 2 | 2 |
| | Robotics (B) | | | |
| CIT 105 | OSHA 10 General Industry Safety | 1 | 0 | 1 |
| | (B) | | | |
| EET 131 | Circuit Analysis 1 (T) | 3 | 2 | 4 |
| PSET 110 | Power Systems Computer Aided | 2 | 3 | 3 |
| | Drafting (B) | | | |

| FYE 1XX First Year | | 1 | 0 | 1 |
|--|---|--------|--------|----|
| Experience Elective (B) MAT XXX | | 3 | 2 | 4 |
| Mathematics Elective 1 (G) Semester 2 | | 3 | 2 | 4 |
| | Decree Instrumentation (T) | 0 | 2 | 2 |
| EMET 180 | Process Instrumentation (T) | 2 | 3 2 | 3 |
| EET 132 | Circuit Analysis 2 (T) | 3 | | 4 |
| ENG 101 MET 111 | English Composition 1 (G) | 3 2 | 0 | 3 |
| MAT XXX | Manufacturing Processes 1 (B) | 3 | 3 2 | 3 |
| Mathematics Elective 2 (B) | | 3 | 2 | 4 |
| Semester 3 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education or Transfer | | | | |
| Elective 1 (T) | | | | |
| Semester 4 | | | | |
| EMET 210 | Energy Efficiency and Audits (T) | 2 | 2 | 3 |
| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics (T) | 2 | 3 | 3 |
| ENG 10X | Tunomadee (1) | 3 | 0 | 3 |
| English | | | Ü | |
| Composition Elective (G) | | | | |
| EMET 241 | Building Automation 1 (T) | 2 | 3 | 3 |
| PHY XXX | | 3 | 2 | 4 |
| Physics | | | | |
| Elective (G) | | | | |
| Semester 5 | Oalan and Dan soughla Farance (T) | 0 | 0 | 0 |
| EMET 225 | Solar and Renewable Energy (T) | 2 | 3 | 3 |
| MET 150 | Statics and Strength of Materials for MET (T) | 2 | 3 | 3 |
| EMET 242 | Building Automation 2 (T) | 3 | 3 | 4 |
| XXX XXX Arts/ | | 3 | 0 | 3 |
| Humanities | | | | |
| or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Semester 6 | | | 40 | |
| XXX XXX Cooperative | | 1 | 40 | 2 |
| Education | | | | |
| or Transfer | | | | |
| Elective 2 (T) | | | | |
| Total Credits: | | 48 | 118 | 65 |
| | | | | |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------------------|--|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics E | Electives | 8 |
| Select one of th | e following series: | |
| MAT 125 & MAT 126 | Algebra and Trigonometry and Functions and Calculus | |
| Or | | |
| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 | |
| English Comp | osition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| Physics Elective | ve | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| Arts/Humanitie one course) | es or Social/Behavioral Science Elective (select | |
| Any ECO, GEO | , HST, LBR, LIT, PHI | 3 |
| Cooperative E | ducation or Transfer Electives * | |
| EMET 291 | Full-Time Cooperative Education 1: Electro- Mechanical Engineering Technology | 2 |
| EMET 292 | Full-Time Cooperative Education 2: Electro- Mechanical Engineering Technology | 2 |
| EET 121 | Digital Systems 1 | 3 |
| ESET 251 | Electronics | 4 |
| MET 140 | Engineering Materials | 3 |

Program Chair approval is required for students planning to take a Transfer Elective course rather than participate in cooperative education.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Electro-Mechanical Engineering Technologies (EMET, EMETE, EMETL)

- Demonstrate ability to communicate as an individual, as well as function effectively on teams by applying oral and written skills.
- Demonstrate knowledge of the importance of quality, timeliness, and continuous improvement.
- Demonstrate appropriate mastery of circuit analysis.
- Demonstrate appropriate mastery of CAD.
- Demonstrate ability to identify, analyze, and creatively solve technical and design problems.
- Demonstrate ability to apply fundamental knowledge to conduct experiments, analyze data, interpret data, and apply results to improve processes.

- Demonstrate appropriate mastery of programmable controllers and motor control systems.
- Demonstrate appropriate mastery of programming robots.
- Complete and pass an OSHA 10 General Industry course.

Faculty

Program Chair/Advisor

Professor Lawrence (Larry) Feist, BS lawrence.feist@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed. sue.dolan@cincinnatistate.edu

Electro-Mechanical Engineering Technology - Laser Major and Laser Certificate (EMETL, EMETLC)

Electro-Mechanical Engineering Technology—Laser Major (EMETL)

Graduates of the Electro-Mechanical Engineering Technology -Laser Major are prepared to successfully begin careers and advance professionally in local and national industries that utilize lasers and electro-optics systems, or use industrial equipment in automated manufacturing and research environments.

Students work with laser material processing systems, and operate and troubleshoot optical systems including lasers, lens systems, and fiber optics.

Graduates earn an Associate of Applied Science degree and are also prepared to pursue a bachelor's degree in fields such as electromechanical engineering or electrical engineering.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electro-Mechanical Engineering Technology—Laser Certificate (EMETLC)

The Electro-Mechanical Engineering Technology – Laser Certificate prepares students to enter careers and advance professionally in local and national industries that utilize laser and electro-optics systems.

Students work with laser material processing systems, and operate and troubleshoot optical systems including laser, lens systems, and fiber optics.

Graduates of the certificate program receive OSHA 10 Electrical Safe Practices certification and are prepared for Laser Safety Officer training based on ANSI 36 standards, OSHA guidelines, and the FDA Center for Devices and Radiological Health (CDRH).

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electro-Mechanical Engineering Technology—Laser Major (EMETL)

| Semester 1 | | Lec | Lab Cr | edits |
|--|---|-----|--------|-------|
| EMET 150 | Introduction to Controls and Robotics (B) | 1 | 2 | 2 |
| CIT 105 | OSHA 10 General Industry Safety (B) | 1 | 0 | 1 |
| EET 131 | Circuit Analysis 1 (T) | 3 | 2 | 4 |
| PSET 110 | Power Systems Computer Aided Drafting (B) | 2 | 3 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
| Semester 2 | 5 | | | |
| EMET 180 | Process Instrumentation (T) | 2 | 3 | 3 |
| EET 132 | Circuit Analysis 2 (T) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| MAT XXX Mathematics Elective 2 (B) Semester 3 | | 3 | 2 | 4 |
| XXX XXX Cooperative Education or Transfer Elective 1 (T) Semester 4 | | 1 | 40 | 2 |
| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics (T) | 2 | 3 | 3 |
| EMET 245 | Laser 1 (T) | 2 | 3 | 3 |
| PHY XXX Physics Elective (G) | | 3 | 2 | 4 |
| ENG 10X English Composition Elective (G) Semester 5 | | 3 | 0 | 3 |
| EMET 246 | Laser 2 (T) | 3 | 3 | 4 |
| EMET 270 | Robotics and Servomechanisms (| 3 | 3 | 4 |
| EMET 275 | Electric Drive Mechanisms (T) | 3 | 3 | 4 |
| | | | | |

| MET 150 | Statics and Strength of Materials for MET (B) | 2 | 3 | 3 |
|----------------|--|----|-----|----|
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities | | | | |
| or Social/ | | | | |
| Behavioral | | | | |
| Science (2) | | | | |
| Elective (G) | | | | |
| Semester 6 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| or Transfer | | | | |
| Elective 2 (T) | | | | |
| Total Credits: | | 48 | 116 | 64 |
| Electives | S | | | |
| First Year Ex | perience Elective | | | |
| FYE 100 | College Survival Skills | | | 1 |

| First Year | Experience | Elective |
|------------|------------|----------|
|------------|------------|----------|

| FYE 100 | College Survival Skills | 1 |
|-----------------------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics Electives | | 8 |
| Calact and of | f the following period | |

Select one of the following series:

| MAT 125 | Algebra and Trigonometry |
|-----------|----------------------------|
| & MAT 126 | and Functions and Calculus |
| Or | |

MAT 251 Calculus 1 & MAT 252 and Calculus 2

English Composition Elective

ENG 102 English Composition 2: Contemporary Issues 3 **ENG 104** 3 English Composition 2: Technical Communication

Physics Elective

| A sto/Llumonities | or Cosial/Dehavioral Calence Floative | |
|-------------------|---|---|
| PHY 201 | Physics 1: Calculus-Based | 5 |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |

Arts/Humanities or Social/Behavioral Science Elective

Any ECO, GEO, HST, LBR, LIT, PHI

Cooperative Education or Transfer Electives

| EMET 291 | Full-Time Cooperative Education 1: Electro- Mechanical Engineering Technology | 2 |
|----------|--|---|
| EMET 292 | Full-Time Cooperative Education 2: Electro- Mechanical Engineering Technology | 2 |
| EET 121 | Digital Systems 1 | 3 |
| ESET 251 | Electronics | 4 |
| MET 140 | Engineering Materials | 3 |

Program Chair approval is required for students planning to take a Transfer Elective course rather than participate in cooperative education.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Electro-Mechanical Engineering Technology - Laser Certificate (EMETLC)

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|---------------------------------|-----|--------|-------|
| EMET 245 | Laser 1 | 2 | 3 | 3 |
| CIT 105 | OSHA 10 General Industry Safety | 1 | 0 | 1 |
| Semester 2 | | | | |
| EMET 246 | Laser 2 | 3 | 3 | 4 |
| Total Credits | : | 6 | 6 | 8 |

Electro-Mechanical Engineering Technologies (EMET, EMETE, EMETL)

- Demonstrate ability to communicate as an individual, as well as function effectively on teams by applying oral and written skills.
- Demonstrate knowledge of the importance of quality, timeliness, and continuous improvement.
- Demonstrate appropriate mastery of circuit analysis.
- · Demonstrate appropriate mastery of CAD.
- Demonstrate ability to identify, analyze, and creatively solve technical and design problems.
- Demonstrate ability to apply fundamental knowledge to conduct experiments, analyze data, interpret data, and apply results to improve processes.
- Demonstrate appropriate mastery of programmable controllers and motor control systems.
- Demonstrate appropriate mastery of programming robots.
- Complete and pass an OSHA 10 General Industry course.

Faculty

Program Chair/Advisor

Professor Lawrence (Larry) Feist, BS lawrence.feist@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed. sue.dolan@cincinnatistate.edu

Electro-Mechanical Engineering Technology - Building Automation Systems Certificate (BASC)

Electro-Mechanical Engineering Technology - Building Automation Systems Certificate (BASC)

The Electro-Mechanical Engineering Technology – Building Automation Systems Certificate prepares students to enter careers

or advance professionally in positions related to current building automation controls.

Students work with control technologies that provide data-driven, technology-enabled services to help create high performance buildings offering reduced costs, better indoor environments, and smaller environmental footprints.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electro-Mechanical Engineering Technology - Building Automation Systems Certificate (BASC)

| Semester 1 | | Lec | Lab C | redits |
|---------------|--|-----|-------|--------|
| EMET 210 | Energy Efficiency and Audits | 2 | 2 | 3 |
| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics | 2 | 3 | 3 |
| Semester 2 | | | | |
| EMET 241 | Building Automation 1 | 2 | 3 | 3 |
| EMET 242 | Building Automation 2 | 3 | 3 | 4 |
| Total Credits | : | 9 | 11 | 13 |

Faculty

Program Chair

Professor Lawrence (Larry) Feist, BS lawrence.feist@cincinnatistate.edu

Mechanical Engineering Technologies

Graduates of the Mechanical Engineering Technologies programs are prepared to design mechanical systems, operate CAD systems, manage design projects, and perform product testing.

Two associate degree programs and two certificates are offered:

- Mechanical Engineering Technology Design Major (METD)
- Mechanical Engineering Technology Manufacturing Management Option (METM)
- Computer Aided Design Certificate (METCAD)
- CNC Certificate (METMC)

Examples of graduate job titles include product designer, CAD/CAM system specialist, product support manager, design engineering technician, or project engineering technician.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Mechanical Engineering Technology - Design Major & Computer Aided Design Certificate (METD & METCAD)

Mechanical Engineering Technology— Design Major (METD)

Students in the Mechanical Engineering Technology - Design Major learn to use the latest technology to design and manufacture devices and systems for consumer products, machine tools, and the automotive and aerospace industries.

The curriculum prepares students to solve real-world problems from concept to completion using logical thinking as well as computer software, including computer-aided design (CAD) and computer-aided engineering (CAE).

The MET - Design Major is the traditional Mechanical Engineering Technology program. Graduates earn an Associate of Applied Science degree, and are well prepared to continue their education in a related engineering bachelor's degree program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Mechanical Engineering Technology - Computer Aided Design Certificate (METCAD)

The Mechanical Engineer Technology - Computer Aided Design Certificate assists professionals who want to upgrade their skills, and also prepares new students for entry-level jobs in the field of computer aided design (CAD).

While completing the certificate, students gain proficiency with the most popular CAD software packages used in industry, including AutoCAD, Inventor, SolidWorks, and NX.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Mechanical Engineering Technology— Design Major (METD)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---------------------------------|-----|--------|-------|
| MET 100 | Introduction to Mechanical | 1 | 2 | 2 |
| | Engineering Technology (B) | | | |
| MET 111 | Manufacturing Processes 1 (B) | 2 | 3 | 3 |
| MET 131 | MET Computer Aided Drafting 1 (| 2 | 3 | 3 |
| | B) | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |

| FYE 1XX | | 1 | 0 | 1 |
|---------------------------|--|----|-----|----|
| First Year Experience | | | | |
| Elective (B) | | | | |
| MAT XXX | | 3 | 2 | 4 |
| Mathematics | | | | |
| Elective 1 | | | | |
| (G) Semester 2 | | | | |
| MET 132 | MET Computer Aided Drafting 2 (| 2 | 3 | 3 |
| WILT TOZ | T) | _ | 3 | 3 |
| MET 140 | Engineering Materials (T) | 2 | 2 | 3 |
| MET 150 | Statics and Strength of Materials | 2 | 3 | 3 |
| 5110 (0) | for MET (T) | | _ | |
| ENG 10X English | | 3 | 0 | 3 |
| Composition | | | | |
| Elective (G) | | | | |
| MAT XXX | | 3 | 2 | 4 |
| Mathematics | | | | |
| Elective 2 (B) Semester 3 |) | | | |
| MET 291 | Full-Time Cooperative Education | 1 | 40 | 2 |
| | 1: Mechanical Engineering | | | |
| | Technology (T) | | | |
| Semester 4 | | | | |
| MET 240 | Hydraulics and Pneumatics (T) | 2 | 3 | 3 |
| MET 250 | Machine Design (T) | 3 | 3 | 4 |
| MET 285 | Mechanical Engineering Technology Capstone Project 1 (| 2 | 3 | 3 |
| | T) | | | |
| PHY 151 | Physics 1: Algebra and | 3 | 3 | 4 |
| | Trigonometry-Based (G) | | | |
| Semester 5 | | | _ | |
| MET 260 | Applied Thermodynamics (T) | 2 | 2 | 3 |
| MET 270 MET 290 | Kinematics (T) Mechanical Engineering | 2 | 2 | 3 |
| IVIET 290 | Technology Capstone Project 2 (| 2 | 3 | 3 |
| | T) | | | |
| EET 101 | Electronic Fundamentals 1 (T) | 2 | 3 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ Humanities | | | | |
| or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) Semester 6 | | | | |
| MET 292 | Full-Time Cooperative Education | 1 | 40 | 2 |
| IVIL I 232 | 2: Mechanical Engineering | ' | 40 | 2 |
| | Technology (T) | | | |
| Total Credits: | | 47 | 122 | 65 |
| Electives | S | | | |
| First Year Ex | sperience Elective | | | |
| FYE 100 | College Survival Skills | | | 1 |
| | | | | |

| FYE 105 | College Success Strategies | 2 |
|------------------------------|------------------------------|---|
| FYE 110 | Community College Experience | 3 |
| Mathematics Electives | | 8 |
| Take one of the | following series: | |
| MAT 125 | Algebra and Trigonometry | |
| & MAT 126 | and Functions and Calculus | |
| Or | | |
| MAT 251 | Calculus 1 | |
| & MAT 252 | and Calculus 2 | |
| English Composition Elective | | |

| English Composition Elective | | | |
|------------------------------|--|---|--|
| ENG 102 | English Composition 2: Contemporary Issues | 3 | |
| ENG 104 | English Composition 2: Technical Communication | 3 | |
| ENG 105 | English Composition 2: Business Communication | 3 | |
| | | | |

Arts/Humanities or Social/Behavioral Science Elective

Any course from CULT, ECO, GEO, HST, LBR, PHI, POL, PSY, SOC

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Mechanical Engineering Technology - Computer Aided Design Certificate (METCAD)

| Semester 1 | | Lec | Lab C | redits |
|----------------|-------------------------------|-----|-------|--------|
| MET 100 | Introduction to Mechanical | 1 | 2 | 2 |
| | Engineering Technology | | | |
| MET 131 | MET Computer Aided Drafting 1 | 2 | 3 | 3 |
| MAT 1XX | | 2 | 2 | 3 |
| Mathematics | | | | |
| Elective | | | | |
| Semester 2 | | | | |
| MET 111 | Manufacturing Processes 1 | 2 | 3 | 3 |
| MET 132 | MET Computer Aided Drafting 2 | 2 | 3 | 3 |
| MET 140 | Engineering Materials | 2 | 2 | 3 |
| Total Credits: | | 11 | 15 | 17 |

Electives

Mathematics Elective

| MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
|---------|--|---|
| MAT 125 | Algebra and Trigonometry | 4 |

Mechanical Engineering Technology (METD, METM)

- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments.
- Ability to function effectively as a member of a technical team.

- Ability to design systems, components, or processes to solve engineering technology problems.
- Ability to identify, analyze, and solve narrowly defined engineering technology problems.
- Ability to apply written, oral, and graphical communication in technical environments.
- Demonstrate commitment to quality, timeliness, and continuous improvement.

Faculty

Program Chair/Advisor

Professor Michael DeVore, PhD, PE michael.devore@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed. sue.dolan@cincinnatistate.edu

Mechanical Engineering Technology - Manufacturing Management Option & CNC Certificate (METM, METMC)

Mechanical Engineering Technology —Manufacturing Management Option (METM)

In the Mechanical Engineering Technology - Manufacturing Management Option, students learn the technologies and skills needed to manage a high-tech production facility.

The curriculum includes hands-on manufacturing processes, state-of-the-art Computer-Aided Drafting and Computer-Aided Machining (CAD/CAM), Computer Numerical Control (CNC), and materials and quality control analysis using statistical process control (SPC).

Graduates earn an Associate of Applied Science degree and are prepared for immediate employment in a production facility, or for easy transition into to related bachelor's degree studies.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Mechanical Engineering Technology - Manufacturing CNC Certificate (METMC)

The Mechanical Engineering Technology - Manufacturing CNC Certificate is designed for individuals currently employed in a manufacturing field who desire additional knowledge of computer numerical control (CNC) programming and computer-aided manufacturing processes.

Most students can complete the certificate requirements in a year or less. All courses completed while earning this certificate may be

Lec Lab Credits

Semester 1

applied to the associate's degree program Mechanical Engineering Technology - Manufacturing Management Option.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Mechanical Engineering Technology — Manufacturing Management Option (METM)

| Semester 1 | | Lec | Lab Cı | redits |
|---|--|-----|--------|--------|
| MET 100 | Introduction to Mechanical Engineering Technology (B) | 1 | 2 | 2 |
| MET 111 | Manufacturing Processes 1 (B) | 2 | 3 | 3 |
| MET 131 | MET Computer Aided Drafting 1 (B) | 2 | 3 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| MAT XXX Mathematics Elective 1 (G) | | 3 | 2 | 4 |
| Semester 2 | | | | |
| MET 112 | Manufacturing Processes 2 (T) | 2 | 3 | 3 |
| MET 132 | MET Computer Aided Drafting 2 (T) | 2 | 3 | 3 |
| MET 140 | Engineering Materials (T) | 2 | 2 | 3 |
| MET 150 | Statics and Strength of Materials for MET (T) | 2 | 3 | 3 |
| MAT XXX Mathematics Elective 2 (B) Semester 3 | | 3 | 2 | 4 |
| MET 291 | Full-Time Cooperative Education 1: Mechanical Engineering Technology (T) | 1 | 40 | 2 |
| Semester 4 | | | | |
| MET 113 | Manufacturing Processes 3 (T) | 2 | 3 | 3 |
| MET 240 | Hydraulics and Pneumatics (T) | 2 | 3 | 3 |
| MET 285 | Mechanical Engineering Technology Capstone Project 1 (T) | 2 | 3 | 3 |
| EET 101 | Electronic Fundamentals 1 (T) | 2 | 3 | 3 |
| ENG 10X English Composition Elective (G) Semester 5 | | 3 | 0 | 3 |
| MET 230 | Quality Control and Six Sigma (T) | 3 | 2 | 4 |

| Mechanical Engineering Technology Capstone Project 2 (T) | 2 | 3 | 3 |
|---|--|--|--|
| Physics 1: Algebra and Trigonometry-Based (G) | 3 | 3 | 4 |
| Full-Time Cooperative Education 2: Mechanical Engineering | 3 | 0 | 2 |
| Technology (T) | | | |
| | 47 | 123 | 65 |
| S | | | |
| perience Elective | | | |
| College Survival Skills | | | 1 |
| College Success Strategies | | | 2 |
| | Technology Capstone Project 2 (T) Physics 1: Algebra and Trigonometry-Based (G) Full-Time Cooperative Education 2: Mechanical Engineering Technology (T) S Keperience Elective College Survival Skills | Technology Capstone Project 2 (T) Physics 1: Algebra and 3 Trigonometry-Based (G) Full-Time Cooperative Education 2: Mechanical Engineering Technology (T) 47 Seperience Elective College Survival Skills | Technology Capstone Project 2 (T) Physics 1: Algebra and 3 3 Trigonometry-Based (G) 3 0 Full-Time Cooperative Education 1 40 2: Mechanical Engineering Technology (T) 47 123 Securic Elective College Survival Skills |

| FYE 100 | College Survival Skills | 1 |
|-----------------------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics Electives | | 8 |
| | | |

| Take one o | f the | following | series: |
|------------|-------|-----------|---------|
|------------|-------|-----------|---------|

| MAT 125 & MAT 126 | Algebra and Trigonometry and Functions and Calculus |
|----------------------|---|
| Or | |
| MAT 251 & MAT 252 | Calculus 1 and Calculus 2 |

| English Composition Elective | | |
|------------------------------|--|---|
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

Arts/Humanities or Social/Behavioral Science Elective

Any course from CULT, ECO, GEO, HST, LBR, PHI, POL, PSY, SOC

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Mechanical Engineering Technology - Manufacturing CNC Certificate (METMC)

| First Year | | | | |
|------------|---------------------------|-----|--------|-------|
| Semester 1 | | Lec | Lab Cr | edits |
| MET 111 | Manufacturing Processes 1 | 2 | 3 | 3 |

| MAT 12X | | 2 | 2 | 3 |
|---------------|-------------------------------|----|----|----|
| Mathematics | | | | |
| Elective | | | | |
| MET 131 | MET Computer Aided Drafting 1 | 2 | 3 | 3 |
| Semester 2 | | | | |
| MET 112 | Manufacturing Processes 2 | 2 | 3 | 3 |
| MET 132 | MET Computer Aided Drafting 2 | 2 | 3 | 3 |
| Semester 3 | | | | |
| MET 113 | Manufacturing Processes 3 | 2 | 3 | 3 |
| Total Credits | <u> </u> | 12 | 17 | 18 |

Mathematics Elective

| MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
|---------|--|---|
| MAT 125 | Algebra and Trigonometry | 4 |

Mechanical Engineering Technology (METD, METM)

- Ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments.
- Ability to function effectively as a member of a technical team.
- Ability to design systems, components, or processes to solve engineering technology problems.
- Ability to identify, analyze, and solve narrowly defined engineering technology problems.
- Ability to apply written, oral, and graphical communication in technical environments.
- Demonstrate commitment to quality, timeliness, and continuous improvement.

Faculty

Program Chair/Advisor

Professor Michael DeVore, PhD, PE michael.devore@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed. sue.dolan@cincinnatistate.edu

Multimedia Information Design

The Multimedia Information Design programs at Cincinnati State prepare students to design and produce media content in all formats. The final product might be distributed as an interactive DVD, a component of a mobile device application, a website, a TV or radio commercial, a production for television or movies, or printed information. The target audience may be a few people or many, and the products may be created for educational, entertainment, or commercial use.

Multimedia Information Design programs include four associate's degrees and a certificate:

- Audio/Video Production (AVP)
- Graphic Design (GRD)
- · Graphic Imaging Technology (GIT)

- Web and Multimedia Design (WEBM)
- Web and Multimedia Design Certificate (WEBC)

All students complete a core set of courses covering basic skills in design and production of media content. Subsequent courses introduce program-specific competencies, ranging from 3-D animation to music video production.

Most of the Multimedia Information Design labs are housed in the College's Advanced Technology & Learning Center on the Clifton Campus. Students have access to a professional video studio and editing lab, a recording studio and digital mixing labs, usability testing labs, and a full complement of computer labs.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Audio/Video Production (AVP)

Audio/Video Production (AVP)

The Audio/Video Production program at Cincinnati State prepares students to create and manipulate digital audio, video, and graphic images. Career destinations for AVP graduates include broadcast and cable television and other entertainment industries; web and multimedia development companies; and media production departments in commercial, corporate, and industrial settings.

A significant number of courses required for the degree are scheduled between 8 a.m. and 5 p.m., Monday through Friday. Some of the required courses also are offered in the evening or on weekends.

Graduates earn an Associate of Applied Science degree. Job titles for graduates include video editor, sound designer, videographer, audio/video specialist, compositing artist, motion graphics designer, or production assistant.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Audio/Video Production (AVP)

| Semester 1 | | Lec | Lab Cr | edits |
|--------------|---------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MAT 120 | Technical Mathematics (G) | 2 | 2 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| AVP 100 | Introduction to Audio/Video | 4 | 1 | 4 |
| | Production (B) | | | |
| ART 125 | Design Principles (B) | 2 | 3 | 3 |
| Semester 2 | | | | |
| AVP 110 | Videography: Single Camera | 2 | 3 | 3 |
| | Production and Lighting (T) | | | |
| GRD 120 | Beginning 2D Graphics: Bitmap (| 2 | 3 | 3 |
| | T) | | | |

| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
|--|---|----|----|----|
| AVP 130 | Audio: Editing & Mixing (T) | 2 | 3 | 3 |
| COMM 105 | Interpersonal Communication (G) | 3 | 0 | 3 |
| Semester 3 | merpereenar cemmameaner (c) | • | | |
| TC XXX | | 2 | 3 | 3 |
| Technical | | _ | | |
| Communication | on | | | |
| Elective (T) | | | | |
| MID 190 | Career Preparation: Multimedia Information Design (B) | 2 | 0 | 2 |
| MKT 115 | Marketing Research for Multimedia Professionals (B) | 3 | 0 | 3 |
| AVP 120 | Digital Video Editing (T) | 2 | 3 | 3 |
| GRD 130 | Beginning 2D Graphics: Vector (| 2 | 3 | 3 |
| | T) | | | |
| Semester 4 | | | | |
| AVP 230 | Audio: Production/Sound Design (T) | 2 | 3 | 3 |
| AVP 220 | Video Editing and Compositing (T) | 2 | 3 | 3 |
| AVP 210 | Videography- Multi Camera Production and Lighting (T) | 2 | 3 | 3 |
| AVP 240 | Motion Graphics/Compositing: After Effects (T) | 2 | 3 | 3 |
| Semester 5 | | | | |
| AVP XXX | | 1 | 40 | 1 |
| Co-op/ | | - | | - |
| Internship | | | | |
| Elective (T) | | | | |
| Semester 6 | | | | |
| XXX XXX | | 1 | 2 | 2 |
| AVP Elective | | | | |
| 1 (T) | | | | |
| XXX XXX AVP Elective | | 1 | 20 | 1 |
| 2 (T) | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Social/ | | Ü | Ü | Ü |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Total Credits: | | 49 | 98 | 62 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |

| ENG 105 | English Composition 2: Business Communication | 3 | | | |
|----------------------------------|---|---|--|--|--|
| Technical Communication Elective | | | | | |
| TC 205 | Scriptwriting: Short Forms | 3 | | | |
| TC 210 | Scriptwriting: Long | 3 | | | |
| AVP Electives | | | | | |
| AVP 192 | Part-Time Cooperative Education 2: Audio/Video Production | 1 | | | |
| AVP 250 | Alternate Editing Platforms-Video | 2 | | | |
| AVP 255 | Advanced Lighting Techniques | 2 | | | |
| AVP 260 | Color Grading, Correction and Continunity | 2 | | | |
| AVP 265 | Video Compression- DVD Authoring | 2 | | | |
| AVP 270 | Alternate Editing Platforms- Audio | 2 | | | |
| AVP 275 | Advanced Audio Mixing- 5.1 Surround | 2 | | | |
| AVP 280 | Mulit Track Recording Techniques | 2 | | | |
| AVP 285 | AVP Independent Project | 3 | | | |
| AVP 292 | Full-Time Cooperative Education 2: Audio/Video Production | 2 | | | |
| AVP 295 | Internship 2: Audio/Video Production | 2 | | | |
| GRD 260 | 3D Visualization | 5 | | | |
| WEB 111 | Web Development 1 | 3 | | | |
| WEB 220 | Animated and Interactive Web Content | 3 | | | |
| Social/Behavior | ral Science Elective | | | | |
| Any ECO, GEO, | HST, LBR, POL, PSY, SOC | 3 | | | |
| Co-op/Internshi | p Elective | | | | |
| AVP 191 | Part-Time Cooperative Education 1: Audio/Video Production | 1 | | | |
| AVP 291 | Full-Time Cooperative Education 1: Audio/Video Production | 2 | | | |
| AVP 294 | Internship 1: Audio/Video Production | 2 | | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Audio/Video Production (AVP)

- Demonstrate technical proficiency across multiple disciplines of audio and video production.
- Demonstrate capability to function independently and exercise teamwork as a member of a film/video or audio production team.
- Demonstrate understanding of multiple complex workflows and demonstrate proper time management skills.
- Demonstrate ability to present, analyze, critique, and defend a variety of multimedia deliverables.
- Demonstrate ability to communicate messages and stories effectively and creatively to diverse audiences.
- Demonstrate professional communication and ethical workplace practices.

Faculty

Program Chair/Advisor

Professor David Killen, MA david.killen@cincinnatistate.edu

Co-op Coordinator

Professor Andrea (Andi) Feld, BA andrea.feld@cincinnatistate.edu

Graphic Design (GRD)

Graphic Design (GRD)

Students in the Graphic Design program begin their studies with emphasis on two-dimensional art and design, both traditional and computer-based, using industry-standard software products. After successful completion of a required portfolio review process, students focus on advanced skills such as brand design and implementation, and motion design.

Currently many courses required for the degree are scheduled between 8 a.m. and 5 p.m., Monday through Friday. Some of the required courses also are offered in the evening or on weekends.

Graduates earn an Associate of Applied Science degree. Job titles for graduates include graphic designer, motion designer, production artist, or web graphics/interface designer.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Graphic Design (GRD)

| Semester 1 | | Lec | Lab Cr | edits |
|--|--|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MID 120 | Drawing Fundamentals for Multimedia Information Design (B) | 2 | 3 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| ART 125 | Design Principles | 2 | 3 | 3 |
| MKT 115 | Marketing Research for Multimedia Professionals | 3 | 0 | 3 |
| Semester 2 | | | | |
| MAT 120 | Technical Mathematics (G) | 2 | 2 | 3 |
| GRD 120 | Beginning 2D Graphics: Bitmap (| 2 | 3 | 3 |
| GRD 130 | Beginning 2D Graphics: Vector (T) | 2 | 3 | 3 |
| WEB 111 | Web Development 1 (B) | 2 | 3 | 3 |
| ART 120 | Design History (G) | 3 | 0 | 3 |
| Semester 3 | | | | |
| GRD 150 | Design Concepts: Typography (T) | 2 | 3 | 3 |

| GRD 200 | Graphic Design Portfolio Review (T) | 1 | 0 | 1 |
|------------------------------------|---|----|----|----|
| GRD 215 | Applied 2D Graphics: GRD (T) | 2 | 3 | 3 |
| MID 190 | Career Preparation: Multimedia Information Design (B) | 2 | 0 | 2 |
| GRD 250 | User Interface Design and Implementation | 2 | 3 | 3 |
| Semester 4 | | | | |
| ENG 10X English | | 3 | 0 | 3 |
| Composition Elective (G) | | | | |
| XXX XXX | | 2 | 3 | 3 |
| Animation Elective (T) | | | | |
| XXX XXX Social/ | | 3 | 0 | 3 |
| Behavioral Science | | | | |
| Elective (G) | | | _ | |
| GRD 240 | Packaging Design | 2 | 3 | 3 |
| Semester 5 | | | | |
| GIT 255 | Graphic Imaging Production Processes (T) | 2 | 3 | 3 |
| GRD 290 | Graphic Design Capstone (T) | 2 | 3 | 3 |
| GRD 230 | Brand Identity Development | 2 | 3 | 3 |
| Semester 6 | | | | |
| GRD 294 | Internship 1: Graphic Design (T) | 1 | 40 | 2 |
| Total Credits: | | 48 | 81 | 63 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | osition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Animation Elec | ctive | |
| AVP 240 | Motion Graphics/Compositing: After Effects | 3 |
| GRD 260 | 3D Visualization | 5 |
| Social/Behavio | oral Science Elective | |
| Any CRJ, ECO, | GEO, HST, LBR, POL, PSY, SOC | 3 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Graphic Design (GRD)

- · Demonstrate understanding of fundamental design principles.
- Demonstrate competency in working with, creating, and navigating brand standards (designing under existing restrictions, as well as creating guidelines for future designers).
- Demonstrate proficiency with typography and typographic principles, in small amounts (posters, infographics, etc.) and large scale applications (200+ words, body copy, etc.).
- Demonstrate ability to think and speak critically about design and typographic language, including their own work and the work of others.
- Demonstrate proficiency in using Adobe Creative Suite.
- Demonstrate proficiency in design for packaging applications.
- Demonstrate knowledge and application of user interface/user experience design for web and mobile applications.
- Demonstrate proficiency in motion graphics and basic principles of animation.
- Demonstrate ability to ideate and visually represent creative ideas through use of hand-drawn sketches.

Faculty

Program Chair/Advisor

Professor Jason Caudill, MS jason.caudill@cincinnaitstate.edu

Co-op Coordinator

Professor Andrea (Andi) Feld, BA andrea.feld@cincinnatistate.edu

Graphic Imaging Technology (GIT)

Graphic Imaging Technology (GIT)

The Graphic Imaging Technology program prepares students for professional careers in printing, publishing, packaging, and related industries. The core course ensure that graduates have the skills and knowledge required for most entry-level jobs in the field.

Students learn the processes for creating art and publishing materials from idea generation to production. Students also gain hands-on experience producing printed materials using the major printing processes, including offset lithography, packaging (flexography), screen printing, and digital printing.

Coursework emphasizes individual and team laboratory performance, while stressing the development of creativity and problem-solving skills.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Graphic Imaging Technology (GIT)

| • | 0 0 | ` | , | |
|-----------------------|--|-----|-------|--------|
| Semester 1 | | Lec | Lab C | redits |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| GIT 100 | Introduction to Graphic Imaging Technology (B) | 2 | 2 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| ART 125 | Design Principles (B) | 2 | 3 | 3 |
| MAT 120 | Technical Mathematics (G) | 2 | 2 | 3 |
| Semester 2 | | | | |
| MID 190 | Career Preparation: Multimedia | 2 | 0 | 2 |
| | Information Design (B) | | | |
| GIT 105 | Ink and Substrates (T) | 3 | 0 | 3 |
| GIT 115 | Adobe InDesign (T) | 2 | 3 | 3 |
| GRD 120 | Beginning 2D Graphics: Bitmap (| 2 | 3 | 3 |
| | T) | | | |
| GRD 130 | Beginning 2D Graphics: Vector (| 2 | 3 | 3 |
| | T) | | | |
| Semester 3 | | | | |
| GIT 120 | Digital Photography and Imaging (T) | 2 | 3 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| GIT 291 | Full-Time Cooperative Education | 1 | 40 | 2 |
| | 1: Graphic Imaging Technology (T) | | | |
| Semester 4 | •, | | | |
| GIT 200 | Digital Imaging and Publishing (T) | 1 | 6 | 3 |
| GIT 240 | Flexographic Printing Methods (T) | 1 | 6 | 3 |
| GIT 240 | Screen Printing (T) | 1 | 6 | 3 |
| MKT 115 | Marketing Research for | 3 | 0 | 3 |
| IVIKT 113 | Multimedia Professionals (B) | 3 | U | 3 |
| XXX | (2) | 3 | 0 | 3 |
| XXX Art/ | | Ü | • | |
| Humanities | | | | |
| Elective (G) | | | | |
| Semester 5 | | | | |
| GIT 215 | Applied 2D Graphics: Graphic Imaging Technology (T) | 2 | 3 | 3 |
| GIT 230 | Print Media Workflow (T) | 3 | 0 | 3 |
| GIT 250 | Offset Printing Methods (T) | 1 | 6 | 3 |
| GIT 290 | Graphic Imaging Technology | 0 | 3 | 1 |
| | Capstone (T) | | | |
| Semester 6 | | | | |
| GIT 292 | Full-Time Cooperative Education | 1 | 40 | 2 |
| | 2: Graphic Imaging Technology (| | | |
| | T) | | | |
| | | | | |

| XXX XXX | 3 | 0 | 3 |
|-----------------------|----|-----|----|
| Social/ | | | |
| Behavioral | | | |
| Science | | | |
| Elective (G) | | | |
| Total Credits: | 46 | 129 | 65 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 | | |
|--------------------------|---|---|--|--|
| FYE 105 | College Success Strategies | 2 | | |
| FYE 110 | Community College Experience | 3 | | |
| English Compo | sition Elective | | | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 | | |
| ENG 103 | English Composition 2: Writing about Literature | 3 | | |
| ENG 104 | English Composition 2: Technical Communication | 3 | | |
| ENG 105 | English Composition 2: Business Communication | 3 | | |
| Social/Behavior | al Science Elective | | | |
| Any SOC, PSY, I | ECO, HST, GEO, LBR, POL | 3 | | |
| Arts/Humanities Elective | | | | |

Any Transfer Module course from: ART, MUS, THE, or ART 120;

or
Any course from: COMM (except COMM 110), CULT, FRN, ITP,

Any course from: COMM (except COMM 110), CULT, FRN, ITP, LIT, PHI, REL, SPN

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Graphic Imaging Technology (GIT)

- Ability to use the Adobe Creative Suite (Illustrator, Photoshop and InDesign) to prepare files for the print process.
- Ability to implement prepress techniques to ensure files are prepped correctly for offset, flexography, screen, and digital printing.
- Ability to determine project cost estimate and imposition of layout based on press type, paper, and quantity.
- Understanding of paper characteristics such as weight, finish, grain, and their impact on print processes.
- Understanding of proper graphic file formats, resolution, color modes, and bit depth and their impact on print materials.
- Screen printing: Ability to determine appropriate mesh count and procedures to produce acceptable printed materials.
- Flexographic printing: Understanding of plate-making procedures and evaluation to determine plate specifications and usability; understanding of basic structure of a flexographic press including parts and operating procedures.

- Offset Lithography: Understanding of fundamentals of creating and producing lithographic projects; understanding of basic structure of an offset litho press including parts and operating procedures.
- Ability to create ICC profiles for output devices using standardized equipment such as colorimeters.
- Ability to use a spectrophotometer and comprehend data readings of print and ink materials.
- Ability to test and evaluate ink for each print process based on viscosity, adhesion, finish, cure methods, longevity, and pH.
- Ability to apply creative thinking skills to solve problems in lab situations that simulate "real world" experiences.
- Ability to work as a member of a team and coordinate a project from concept to finish.
- Ability to use communication and management skills in team projects

Faculty

Program Chair/Advisor

Professor Kathleen (Kathy) Freed, BA kathleen.freed@cincinnatistate.edu

Co-op Coordinator

Professor Andrea (Andi) Feld, BA andrea.feld@cincinnatistate.edu

Web and Multimedia Design (WEBM)

Web and Multimedia Design (WEBM)

The Web and Multimedia Design degree program prepares students to design and deliver interactive multimedia content for web, CD, DVD, and kiosk deployment.

Students gain the knowledge and skills needed to create original digital art used to integrate text, images, animation, video, and other content into effective web and interactive multimedia products.

For students seeking the Web and Multimedia Design degree, owning a laptop computer and a subscription to cloud-based software used in classes is strongly recommended. The Web and Multimedia Design program chair can provide details and program-specific requirements.

Graduates of the program earn an Associate of Applied Science degree. Job titles for graduates include: web designer, web applications developer, multimedia designer/animator, multimedia designer, multimedia developer, web/multimedia project manager, user interface designer, web/multimedia graphics designer, eBusiness developer, and interactive multimedia designer.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Web and Multimedia Design Certificate (WEBC)

The Web and Multimedia Design Certificate assists individuals currently working in a business, marketing, or IT-related field who want to upgrade their skills in design and development of interactive content for websites and other multimedia products.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Web and Multimedia Design (WEBM)

| Semester 1 | | Lec | Lab Cr | edits |
|-------------------------|--|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| WEB 111 | Web Development 1 (B) | 2 | 3 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| MKT 115 | Marketing Research for Multimedia Professionals (B) | 3 | 0 | 3 |
| ART 125 | Design Principles | 2 | 3 | 3 |
| Semester 2 | | | | |
| WEB 112 | Web Development 2 (T) | 2 | 3 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | _ | | _ |
| GRD 120 | Beginning 2D Graphics: Bitmap (T) | 2 | 3 | 3 |
| GRD 130 | Beginning 2D Graphics: Vector (| 2 | 3 | 3 |
| | T) | | | |
| Semester 3 | | | | |
| GRD 220 | Applied 2D Graphics: Web Design (T) | 2 | 3 | 3 |
| WEB 130 | Web Programming: JavaScript (T) | 2 | 3 | 3 |
| WEB 220 | Animated and Interactive Web Content (T) | 2 | 3 | 3 |
| COMM 105 | Interpersonal Communication (G) | 3 | 0 | 3 |
| Semester 4 | | | | |
| MID 190 | Career Preparation: Multimedia Information Design | 2 | 0 | 2 |
| WEB 200 | · · | 2 | 3 | 3 |
| MAT 120 | Web Design Portfolio Review (T) | 2 | 2 | 3 |
| XXX XXX | Technical Mathematics (G) | 2 | 2 | |
| Technical | | 2 | 2 | 3 |
| Elective 1 (T) | | | | |
| XXX XXX | | 2 | 2 | 3 |
| Technical | | _ | 2 | 3 |
| Elective 2 (T) | | | | |
| Semester 5 | | | | |
| WEB 291 | Full-Time Cooperative Education 1: Web & Multimedia Design (T) | 1 | 40 | 2 |
| | a maiamodia booigii (I) | | | |

| Semester 6 | | | | |
|---|---------------------------------------|----|----|----|
| WEB 240 | Web Development: Advanced Topics (T) | 2 | 3 | 3 |
| XXX XXX Social/ Behavioral Science Elective (G) | | 3 | 0 | 3 |
| XXX XXX Technical Elective 3 (T) |) | 2 | 2 | 3 |
| XXX XXX Technical Elective 4 (T) | | 2 | 2 | 3 |
| Total Credits | : | 49 | 80 | 65 |

Electives

| First Year Exp | erience Elective |
|----------------|-------------------------|
| EVE 100 | College Survival Skills |

| FYE 100 | College Survival Skills | 1 |
|------------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Social/Behavior | ral Science Elective | |
| Any CRJ, ECO, | GEO, HST, LBR, POL, PSY, SOC | 3 |
| Technical Elect | ives ¹ | 6 |
| AVP 100 | Introduction to Audio/Video Production | 4 |
| AVP 240 | Motion Graphics/Compositing: After Effects | 3 |
| GIT 115 | Adobe InDesign | 3 |
| GIT 120 | Digital Photography and Imaging | 3 |
| GRD 150 | Design Concepts: Typography | 3 |
| GRD 250 | User Interface Design and Implementation | 3 |
| GRD 260 | 3D Visualization | 5 |
| IT 101 | Programming 1 | 3 |
| IT 111 | Database Design and SQL 1 | 3 |
| IT 112 | Database Design and Management | 3 |
| TC 235 | User Experience Design and Usability Assessment | 3 |

Please meet with Program Chair for Technical Elective advising.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Web and Multimedia Design Certificate (WEBC)

| Semester 1 | | Lec | Lab C | redits |
|----------------------------------|--|-----|-------|--------|
| MKT 115 | Marketing Research for Multimedia Professionals | 3 | 0 | 3 |
| WEB 111 | Web Development 1 | 2 | 3 | 3 |
| MID 110 | Digital Media Concepts | 2 | 2 | 3 |
| XXX XXX Technical Elective | | 2 | 2 | 3 |
| Semester 2 | | | | |
| WEB 130 | Web Programming: JavaScript | 2 | 3 | 3 |
| GRD 110 | Beginning 2D Graphics | 2 | 3 | 3 |
| WEB 112 | Web Development 2 | 2 | 3 | 3 |
| WEB 220 | Animated and Interactive Web Content | 2 | 3 | 3 |
| Total Credits | : | 17 | 19 | 24 |

Electives

Technical Elective

Any AVP, GIT, GRD, MID, TC, WEB (not including courses that are certificate requirements)

Web and Multimedia Design (WEBM)

- Demonstrate ability to apply and use HTML coding language for web development.
- Demonstrate ability to use CSS to style the appearance and layout of web pages throughout a site.
- Demonstrate ability to use JavaScript to develop and maintain dynamic and interactive web pages.
- Demonstrate proficiency using Adobe Illustrator.
- Demonstrate proficiency using Adobe Photoshop.
- Demonstrate proficiency using Adobe Dreamweaver.
- Demonstrate proficiency using Adobe Animate.
- Demonstrate ability to apply fundamentals of other Adobe Creative Cloud programs, such as InDesign, Premier, After Effects, Lightroom, Acrobat Pro, Character Animator, and Media Encoder.
- Demonstrate ability to successfully communicate, present, and defend portfolios and projects.
- Demonstrate ability to assess and speak critically about their own web design work and the work of other design teams in the industry.
- Demonstrate ability to develop and deliver a competitive professional portfolio site (including CV and cover letters) that passes industry review.

Faculty

Program Chair/Advisor

Professor David Hoctor, BA david.hoctor@cincinnatistate.edu

Co-op Coordinator

Professor Andrea (Andi) Feld, BA

andrea.feld@cincinnatistate.edu

Networking and Support Systems

The Networking and Support Systems programs at Cincinnati State prepare students to successfully install, maintain, and support networking systems for industries, businesses, and other organizations.

Numerous entities—from large corporations to individual households—rely on computer networks to enhance production and complete daily tasks. The associate's degree programs offered by the Networking and Support Systems department provide areas of specialization for students interested in a computer networking career.

Networking and Support Systems programs include four associate degrees and a certificate:

- Computer Network Administration (NETA)
- Computer Network Engineering Technology (NETC)
- Computer Network Engineering Technology Cyber-Security Major (NETCCS)
- Computer Support and Administration Technology (CSA)
- Computer Network Administration Certificate (NETAC)

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

Computer Network Administration (NETA & NETAC)

Computer Network Administration (NETA)

Students in the Computer Network Administration program learn to plan, implement, analyze, and administer local, campus-wide, metropolitan, and wide-area networks. Students develop expertise in all facets of networking including operating systems, network hardware, server administration, and virtualization.

Graduates earn an Associate of Applied Science degree and are proficient with server setup and configuration, network security measures, messaging, network wiring, and network help desk operations. In addition, the program prepares students to qualify for several technical certifications.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Network Administration Certificate (NETAC)

The Computer Network Administration Certificate prepares students to implement and administer both client-based and server-based systems.

Semester 1

Students develop expertise in computer operating systems, network operating systems, server administration, and server configuration.

In addition, the certificate prepares students to qualify for Microsoft technical certification.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Network Administration (NETA)

| Semester i | | Lec | Lab C | realis |
|---|---|-----|-------|--------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IT 105 | Information Technology Concepts (B) | 2 | 3 | 3 |
| IT 115 | Operating Systems Administration 1 (B) | 2 | 3 | 3 |
| NETA 120 | Computer Virtualization (T) | 2 | 3 | 3 |
| CIT 190 | Career Preparation: Engineering and Information Technologies (B) | 1 | 0 | 1 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| IT 116 | Operating Systems Administration 2 (B) | 2 | 3 | 3 |
| NETA 115 | Networking Essentials (T) | 2 | 3 | 3 |
| NETA 155 | Server Administration 1 (T) | 3 | 2 | 4 |
| MAT 121 | Technical Algebra and Geometry with Statistics (G) | 2 | 2 | 3 |
| ENG 1XX English Composition Elective (G) | | 3 | 0 | 3 |
| Semester 3 | E 11 Ti O | | 40 | • |
| NETA 291 | Full-Time Cooperative Education 1: Computer Network Administration (T) | 1 | 40 | 2 |
| Semester 4 | | | | |
| NETA 135 | Information Technology Support Desk Concepts (T) | 3 | 2 | 4 |
| NETA 256 | Server Adminstration 2 (T) | 3 | 2 | 4 |
| NETA 265 | Server Configuration (T) | 3 | 2 | 4 |
| XXX XXX Social/ Behavioral Science Elective (G) Semester 5 | | 3 | 0 | 3 |
| NETA 125 | Open Source Operating Systems and Applications (T) | 2 | 3 | 3 |

| NETA 290 | Computer Network Administration Capstone (T) | 1 | 6 | 4 |
|---|---|----|-----|----|
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| XXX XXX Arts/ Humanities Elective (G) | | 3 | 0 | 3 |
| XXX XXX Business Elective (B) | | 3 | 0 | 3 |
| Semester 6 | | | | |
| NETA 292 | Full-Time Cooperative Education 2: Computer Network Administration (T) | 1 | 40 | 2 |
| Total Credits: | : | 49 | 114 | 65 |

Electives

Lec Lab Credits

| ı | Firet | Voor | Experience | Flective |
|---|-------|------|------------|----------|
| ı | rırsı | rear | Experience | Elective |

| FYE 100 | College Survival Skills | 1 |
|----------------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Social/Behavior | al Science Elective | |
| Any ECO, GEO, | HST, LBR, POL, PSY, SOC | 3 |
| Arts/Humanities | Elective | |
| Any ART, CULT, COMM 130 | FRN, SPN, LIT, MUS, PHI, REL, THE, or | 3 |
| Business Election | ve | |
| ACC 101 | Financial Accounting | 3 |
| LAW 101 | Business Law | 3 |
| MGT 101 | Principles of Management | 3 |

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T = Technical course in this curriculum

Computer Network Administration Certificate (NETAC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|------------------------------------|-----|--------|-------|
| IT 105 | Information Technology Concepts | 2 | 3 | 3 |
| IT 115 | Operating Systems Administration 1 | 2 | 3 | 3 |
| NETA 120 | Computer Virtualization | 2 | 3 | 3 |
| Semester 2 | | | | |

| NETA 155 | Server Administration 1 | 3 | 2 | 4 |
|---------------|---|----|----|----|
| IT 116 | Operating Systems Administration 2 | 2 | 3 | 3 |
| NETA 115 | Networking Essentials | 2 | 3 | 3 |
| Semester 3 | | | | |
| NETA 135 | Information Technology Support Desk Concepts | 3 | 2 | 4 |
| NETA 256 | Server Adminstration 2 | 3 | 2 | 4 |
| NETA 265 | Server Configuration | 3 | 2 | 4 |
| Total Credits | : | 22 | 23 | 31 |

Computer Network Administration (NETA)

- Ability to use resources to solve technical problems involving operating systems and server software.
- Ability to manage multiple operating systems, systems software, and network services.
- Ability to understand compliance issues and corporate and federal compliance regulations.
- Ability to function independently and as a member of a team.
- Ability to effectively communicate technical information verbally, in writing, and in presentations.
- · Ability to manage multiple tasks and deadlines.
- Ability to demonstrate professionalism in the workplace and maintain user/client confidentiality.

Faculty

Program Chair/Advisor

Professor Jeffrey Vetter, BS, BA jeffrey.vetter@cincinnatistate.edu

Co-op Coordinator

Professor Noelle Grome, ME, MA noelle.grome@cincinnatistate.edu

Computer Network Engineering Technology (NETC)

Computer Network Engineering Technology (NETC)

The Computer Network Engineering Technology program emphasizes the design, installation, and support of an organization's local area network (LAN), wide area network (WAN), network segment, internet, or intranet system.

Graduates of the program earn an Associate of Applied Science degree and are prepared to provide day-to-day, on-site administrative support for a variety of work environments, including professional offices, small businesses, schools, government agencies, and large corporations.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Network Engineering Technology (NETC)

| Semester 1 | | Lec | Lab Cı | edits |
|--|---|-----|--------|-------|
| NETC 121 | Network Communications 1 (B) | 2 | 2 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective (B) | | | | |
| MAT 125 | Algebra and Trigonometry (B) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| EET 131 | Circuit Analysis 1 (T) | 3 | 2 | 4 |
| CIT 190 | Career Preparation: Engineering | 1 | 0 | 1 |
| | and Information Technologies (T) | | | |
| Semester 2 | | | | |
| MAT 126 | Functions and Calculus (G) | 3 | 2 | 4 |
| EET 121 | Digital Systems 1 (T) | 2 | 2 | 3 |
| EET 132 | Circuit Analysis 2 (T) | 3 | 2 | 4 |
| NETA 155 | Server Administration 1 (B) | 3 | 2 | 4 |
| Semester 3 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Cooperative | | | | |
| Education | | | | |
| or Transfer Elective 1 (T) | | | | |
| * | | | | |
| Semester 4 | | | | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based (B) | 3 | 3 | 4 |
| NETC 122 | Network Communications 2 (T) | 2 | 2 | 3 |
| NETC 230 | Network Security Design (T) | 2 | 2 | 3 |
| EET 122 | Digital Systems 2 (T) | 2 | 3 | 3 |
| Semester 5 | Digital Gystems 2 (1) | | 3 | 3 |
| NETC 240 | Emerging Topics in Computer | 2 | 3 | 3 |
| NETC 240 | Network Engineering Technology (T) | 2 | 3 | 3 |
| NETC 290 | Computer Network Engineering Technology Capstone Project (T) | 2 | 2 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| XXX XXX Arts/ | | 3 | 0 | 3 |
| Humanities | | | | |
| or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Semester 6 | | | | |

| XXX XXX | 1 | 40 | 2 |
|-------------------------|----|-----|----|
| Cooperative | | | |
| Education | | | |
| or Transfer | | | |
| Elective 2 (T) | | | |
| | | | |
| Total Credits: | 45 | 109 | 60 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|-----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Arts/Humanities | or Social/Behavioral Science Elective | |
| PHI 110 | Ethics | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| Cooperative Edu | ucation or Transfer Electives * | |
| NETC 291 | Full-Time Cooperative Education 1: Computer Network Engineering Technology | 2 |
| NETC 292 | Full-Time Cooperative Education 2: Computer Network Engineering Technology | 2 |
| EET 251 | Electronics | 4 |
| EMET 240 | Programmable Logic Controllers, Motors, Motor Controls, and Kinematics | 3 |
| EMET 250 | Servomechanisms | 3 |
| IT 101 | Programming 1 | 3 |
| IT 110 | HTML with CSS and JavaScript | 3 |
| IT 111 | Database Design and SQL 1 | 3 |
| IT 115 | Operating Systems Administration 1 | 3 |
| IT 161 | Java Programming 1 | 3 |
| | | |

* Program Chair approval is required for students planning to take a Transfer Elective course rather than participate in cooperative education.

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Computer Network Engineering Technology (NETC)

 Utilize technical, ethical, and interpersonal skills to effectively work in a team.

- Demonstrate the ability to configure and troubleshoot network systems.
- Develop and implement solutions for networking and security problems, balancing business concerns, technical issues, and security.
- Demonstrate a commitment to timeliness, quality, and continuous improvement.
- Explain networking protocols and their hierarchical relationship in both hardware and software. Compare protocol models and select appropriate protocols for a particular design.
- Demonstrate adequate preparation for career employment and/or pursuit of a baccalaureate degree.
- Effectively communicate technical information verbally, in writing, and in presentations.
- · Document network systems.
- Explain concepts and theories of networking and apply them to various situations; classifying networks, analyzing performance, and implementing new technologies.

Faculty

Program Chair/Advisor

Professor Paul Weingartner, PE, BS paul.weingartner@cincinnatistate.edu

Co-op Coordinator

Professor Noelle Grome, ME, MA noelle.grome@cincinnatistate.edu

Computer Network Engineering Technology - Cyber-Security Major (NETCCS)

Computer Network Engineering Technology - Cyber-Security Major (NETCCS)

The Computer Network Engineering Technology - Cyber-Security Major combines technical knowledge and skills with understanding of security planning, risk mitigation, and related documentation requirements.

Graduates earn an Associate of Applied Science degree and are prepared to assist organizations that must comply with federal or state government regulations related to information security, or must meet payment card industry requirements to safeguard customer information or other sensitive data.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Network Engineering Technology - Cyber-Security Major (NETCCS)

| Semester 1 | | Lec | Lab Cr | edits |
|-------------------------------------|--|--------|--------|-------|
| NETC 121 | Network Communications 1 (B) | 2 | 2 | 3 |
| MAT 131 | Statistics 1 (G) | 2 | 2 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MGT 130 | Project Management (B) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective (B) | | | | |
| CIT 190 | Career Preparation: Engineering | 1 | 0 | 1 |
| | and Information Technologies (T) | | | |
| Semester 2 | | | | |
| NETC 122 | Network Communications 2 (T) | 2 | 2 | 3 |
| NETC 170 | Governance and Management of | 3 | 3 | 4 |
| | IT (B) | | | |
| NETA 155 | Server Administration 1 (B) | 3 | 2 | 4 |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ Humanities | | | | |
| or Social/ | | | | |
| Behavioral | | | | |
| Science | | | | |
| Elective (G) | | | | |
| Semester 3 | | | | |
| Cooperative Education | | 1 | 40 | 2 |
| or Transfer | | | | |
| Elective 1 (T) | | | | |
| * | | | | |
| Semester 4 | | | | |
| NETC 180 | Information Risk Management (T) | 3 | 3 | 4 |
| NETC 230 | Network Security Design (T) | 2 | 2 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| ENG 10X | | 3 | 0 | 3 |
| English Composition | | | | |
| Elective (G) | | | | |
| PHY XXX | | 2 | 2 | 3 |
| Physics | | | | |
| Elective (G) | | | | |
| Semester 5 | | | | |
| NETC 240 | Emerging Topics in Computer | 2 | 3 | 3 |
| | Network Engineering Technology | | | |
| NETC 280 | (T) | 3 | 2 | 4 |
| NETC 280 NETC 290 | IT Documentation (T) Computer Network Engineering | 3 2 | 3 2 | 3 |
| 116 10 230 | Technology Capstone Project (T) | _ | ۷ | 3 |
| IT 215 | Scripting (T) | 2 | 2 | 3 |
| Semester 6 | 1 3 (-/ | _ | _ | J |
| 3330.0.0 | | | | |

| Cooperative Education | 1 40 | 2 |
|--|---|----|
| or Transfer Elective 2 (T) | | |
| Total Credits: | 47 108 | 61 |
| Electives | • | |
| First Year Ex | perience Elective | |
| FYE 100 | College Survival Skills | 1 |
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Arts/Humanit | ies or Social/Behavioral Science Elective | |
| PHI 110 | Ethics | 3 |
| ECO 105 | Principles of Microeconomics | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| English Com | position Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Physics Elect | tive | |
| PHY 150 | Introduction to Physics | 3 |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| Cooperative I | Education or Transfer Electives * | |
| NETC 291 | Full-Time Cooperative Education 1: Computer Network Engineering Technology | 2 |
| NETC 292 | Full-Time Cooperative Education 2: Computer Network Engineering Technology | 2 |
| IT 101 | Programming 1 | 3 |
| IT 110 | HTML with CSS and JavaScript | 3 |
| IT 111 | Database Design and SQL 1 | 3 |
| IT 115 | Operating Systems Administration 1 | 3 |
| IT 161 | Java Programming 1 | 3 |
| _ | Chair approval is required for students planning to take Elective course rather than participate in cooperative | |
| descriptions) id | B, and T (displayed after course titles or elective dentify types of courses required by the Ohio Higher Education as part of an associate's degree | |
| G = General E | ducation course in this curriculum | |

B = Basic Skills course in this curriculum
T = Technical course in this curriculum

Computer Network Engineering Technology - Cyber-Security Major (NETCCS)

- Utilize technical, ethical, and interpersonal skills to effectively work in a team.
- Demonstrate the ability to configure and troubleshoot network systems.
- Develop and implement solutions for networking and security problems, balancing business concerns, technical issues, and security.
- Demonstrate a commitment to timeliness, quality, and continuous improvement.
- Explain networking protocols and their hierarchical relationship in both hardware and software. Compare protocol models and select appropriate protocols for a particular design.
- Demonstrate adequate preparation for career employment and/or pursuit of a baccalaureate degree.
- Effectively communicate technical information verbally, in writing, and in presentations.
- · Document network systems.
- Explain concepts and theories of networking and apply them to various situations; classifying networks, analyzing performance, and implementing new technologies.

Faculty

Program Chair/Advisor

Professor Paul Weingartner, PE, BS paul.weingartner@cincinnatistate.edu

Co-op Coordinator

Professor Noelle Grome, ME, MA noelle.grome@cincinnatistate.edu

Computer Support and Administration Technology (CSA)

Computer Support and Administration Technology (CSA)

Computer Support and Administration program graduates are troubleshooters responsible for interpreting problems and providing technical support assistance and advice to customers.

Students learn to install, set up, and maintain hardware and software for microcomputers. Courses include computer operating systems, data communications, networking, and support center management. Graduates earn an Associate of Applied Science degree.

Career opportunities for program graduates are diverse, for several reasons:

- The sheer number of computers and users in business and industry creates ever-changing work environments and challenges.
- Also, gaining assistance in using software effectively is generally a high priority for businesses and users.

 Finally, the graduate's knowledge and skills are applicable to a class of computers, rather than to a particular company, so graduates have significant job mobility as well as opportunities for entrepreneurial work.

Job titles for Computer Support and Administration graduates include senior PC support technician, PC system coordinator, or helpdesk manager.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Computer Support and Administration Technology (CSA)

| Semester 1 | | Lec | Lab Cı | redits |
|--|---|-----|--------|--------|
| CIT 190 | Career Preparation: Engineering and Information Technologies (B) | 1 | 0 | 1 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| IT 105 | Information Technology Concepts (B) | 2 | 3 | 3 |
| IT 115 | Operating Systems Administration 1 (B) | 2 | 3 | 3 |
| MAT 121 | Technical Algebra and Geometry with Statistics (G) | 2 | 2 | 3 |
| FYE 1XX First Year Experience Elective (B) Semester 2 | | 1 | 0 | 1 |
| CSA 111 | Computer Repair 1 (T) | 2 | 3 | 3 |
| EET 101 | Electronic Fundamentals 1 (B) | 2 | 3 | 3 |
| NETA 125 | Open Source Operating Systems and Applications (B) | 2 | 3 | 3 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| NETX XXX Networking Elective (T) Semester 3 | | 2 | 3 | 3 |
| CSA 291 | Full-Time Cooperative Education 1: Computer Support and Administration (T) | 1 | 40 | 2 |
| Semester 4 | | | | |
| CSA 112 | Computer Repair 2 (T) | 2 | 3 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| NETA 135 | Information Technology Support Desk Concepts (T) | 3 | 2 | 4 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| IT XXX Programming Elective (T) | 3 | 2 | 3 | 3 |

| Semester 5 | | | | |
|--------------------------------|---|----|-----|----|
| CSA 213 | Computer Repair 3 | 2 | 2 | 3 |
| CSA 290 | Computer Support and Administration Capstone (T) | 2 | 2 | 3 |
| NETA 155 | Server Administration 1 (T) | 3 | 2 | 4 |
| XXX XXX Arts/ Humanities | | 3 | 0 | 3 |
| Elective (G) | | | | |
| Semester 6 | | | | |
| CSA 292 | Full-Time Cooperative Education 2: Computer Support and Administration (T) | 1 | 40 | 2 |
| Total Credits | : | 47 | 114 | 62 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Networking Elec | ctive | |
| NETA 115 | Networking Essentials | 3 |
| NETC 121 | Network Communications 1 | 3 |
| Programming E | lective | |
| IT 101 | Programming 1 | 3 |
| IT 110 | HTML with CSS and JavaScript | 3 |
| IT 111 | Database Design and SQL 1 | 3 |
| Arts/Humanities | s Elective | |
| Any ART, CULT, COMM 130 | FRN, LIT, MUS, PHI, REL, SPN, THE, or | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Computer Support and Administration Technology (CSA)

- Ability to use resources to solve technical problems involving operating systems and hardware components.
- Ability to manage multiple hardware components and operating systems.
- Ability to understand compliance issues and corporate and federal compliance regulations.

- · Ability to function independently and as a member of a team.
- Ability to effectively communicate technical information verbally, in writing, and in presentations.
- · Ability to manage multiple tasks and deadlines.
- Ability to demonstrate professionalism in the workplace and maintain user/client confidentiality.

Faculty

Program Chair/Advisor

Professor Jeffrey Vetter, BS, BA jeffrey.vetter@cincinnatistate.edu

Co-op Coordinator

Professor Noelle Grome, ME, MA noelle.grome@cincinnatistate.edu

Pre-Engineering (PENG)

Pre-Engineering (PENG)

The Pre-Engineering program provides students with the academic foundation needed for transfer to a bachelor's degree program in engineering science, such as electrical, chemical, civil, mechanical, computer, or environmental engineering.

Students earn an Associate of Science degree and are prepared to enter their bachelor's degree program with about half of the required credits already completed.

Students must consult with their academic advisor before choosing electives, to ensure that elective courses meet the requirements of the college or university where they will complete their bachelor's degree.

Students must meet the requirements set by the institution they will transfer to. Completing the Pre-Engineering degree does not guarantee acceptance at another college or university.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Pre-Engineering (PENG)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---------------------------------|-----|--------|-------|
| CIT 100 | Introduction to Engineering and | 1 | 3 | 2 |
| | Engineering Technologies | | | |
| CHE 121 | General Chemistry 1 | 4 | 0 | 4 |
| CHE 131 | General Chemistry 1 Lab | 0 | 3 | 1 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective | | | | |
| Semester 2 | | | | |
| PHY 201 | Physics 1: Calculus-Based | 4 | 2 | 5 |
| MAT 251 | Calculus 1 | 5 | 0 | 5 |

| ENG 10X English Composition Elective | | 3 | 0 | 3 |
|---|-------------------------------------|----|----|----|
| Semester 3 | | | | |
| MAT 252 | Calculus 2 | 5 | 0 | 5 |
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| XXX XXX | | 2 | 3 | 3 |
| Technical | | | | |
| Elective 1 | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities | | | | |
| Elective 1 | | | | |
| Semester 4 | | | | |
| XXX XXX | | 2 | 2 | 3 |
| Technical | | | | |
| Elective 2 | | _ | | _ |
| XXX XXX Transfer | | 5 | 0 | 5 |
| Module | | | | |
| Math/ | | | | |
| Science | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Social | | | | |
| Science | | | | |
| Elective | | | | |
| XXX XXX | | 3 | 0 | 3 |
| Arts/ | | | | |
| Humanities | | | | |
| Elective 2 | | | | |
| Semester 5 | | | | |
| CIT 130 | Engineering Programming with MATLAB | 2 | 3 | 3 |
| XXX XXX | | 2 | 3 | 3 |
| Technical | | | | |
| Elective 3 | | | | |
| XXX XXX | | 1 | 40 | 2 |
| Technical | | | | |
| Elective 4 | | | | _ |
| HST XXX | | 3 | 0 | 3 |
| History Elective | | | | |
| | | | | |
| Total Credits: | | 55 | 59 | 63 |

| First Year | Experience | Elective |
|------------|------------|-----------------|
|------------|------------|-----------------|

| FYE 100 | College Survival Skills | 1 |
|----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |

| ENG 105 | English Composition 2: Business Communication | 3 |
|----------------------|--|---|
| Arts/Humanities | s Elective (select two courses) | |
| Any Transfer Mo | dule course from ART, LIT, MUS, PHI, REL, THE | 6 |
| Transfer Module | e Math/Science Elective | |
| MAT 253 | Calculus 3 | 5 |
| CHE 122 | General Chemistry 2 | 5 |
| & CHE 132 | and General Chemistry 2 Lab | |
| CHE 201 | Organic Chemistry 1 | 5 |
| & CHE 211 | and Organic Chemistry 1 Lab | _ |
| CHE 202 & CHE 212 | Organic Chemistry 2 and Organic Chemistry 2 Lab | 5 |
| PHY 202 | Physics 2: Calculus-Based | 5 |
| Technical Electi | , | 3 |
| MAT 253 | Calculus 3 | 5 |
| CET 105 | | |
| | Introduction to Surveying | 3 |
| MET 111 | Manufacturing Processes 1 | 3 |
| MET 131 | MET Computer Aided Drafting 1 | 3 |
| MET 140 | Engineering Materials | 3 |
| EET 121 | Digital Systems 1 | 3 |
| EET 131 | Circuit Analysis 1 | 4 |
| EET 132 | Circuit Analysis 2 | 4 |
| CHE 122 | General Chemistry 2 | 5 |
| & CHE 132 | and General Chemistry 2 Lab | - |
| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab | 5 |
| CHE 202 | Organic Chemistry 2 | 5 |
| & CHE 212 | and Organic Chemistry 2 Lab | 5 |
| PHY 202 | Physics 2: Calculus-Based | 5 |
| CET 291 | Full-Time Cooperative Education 1: Civil | 2 |
| | Engineering Technology ² | _ |
| MET 291 | Full-Time Cooperative Education 1: Mechanical | 2 |
| | Engineering Technology ² | |
| EET 291 | Full-Time Cooperative Education 1: Electronics | 2 |
| | Engineering Technology ² | |
| EMET 291 | Full-Time Cooperative Education 1: Electro- | 2 |
| | Mechanical Engineering Technology ² | |
| | Elective (select one course) | |
| | dule course from ECO, GEO, LBR, POL, PSY, | 3 |
| SOC | | |
| - | (select one course) | _ |
| Any Transfer Mo | dule course from HST | 3 |

Program Chair consent required for Technical Electives. Not all courses are offered every semester. Since Technical Electives vary by transfer school and discipline, students must meet with a Pre-Engineering advisor before registering for courses.

Pre-Engineering (PENG)

- Ability to apply knowledge of mathematics, science, and engineering.
- Ability to design and conduct experiments, as well as to analyze and interpret data.

Only one full-time co-op course is permitted. Co-op credits may not transfer to bachelor's degree programs.

- Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- · Ability to function on multidisciplinary teams.
- · Ability to identify, formulate, and solve engineering problems.
- Understanding of professional and ethical responsibilities.
- · Ability to communicate effectively.
- Understanding of the impact of engineering solutions in a global, economic, environmental, and societal context.
- Recognition of the need for, and ability to engage in life-long learning.
- · Knowledge of contemporary issues.
- Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Faculty

Program Chair/Advisor

Professor George Armstrong, PE, PS, LS, BS george.armstrong@cincinnatistate.edu

Welding and Welding Certificate (WLD & WLDC)

Welding (WLD)

The Welding degree prepares students for high-demand employment opportunities in industries such as manufacturing, construction, automotive, aerospace, and energy piping.

Students gain hands-on skill training in oxyacetylene welding (OAW), oxyfuel cutting (OFC), shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux core arc welding (FCAW), and gas tungsten arc welding (GTAW). Students also develop knowledge and skills in other welding areas including metal fabrication, visual inspection, and blueprint reading.

The degree program includes cooperative education work opportunities as well.

The Welding associate's degree curriculum is aligned with the American Welding Society's SENSE program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Welding Certificate (WLDC)

The Welding Certificate prepares students for immediate employment in organizations where welders are in demand, including manufacturing, construction, automotive, and energy industries. The program includes hands-on practice in a variety of welding processes as well as metal fabrication, testing, and quality control.

Graduates are prepared to take certification tests offered by the American Welding Society.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Welding (WLD)

| Semester 1 | | Lec | Lab Cr | edits |
|---|--|-----|--------|-------|
| WLD 100 | Fundamentals of Welding (B) | 2 | 3 | 3 |
| WLD 105 | Print Reading and Weld Design (B) | 2 | 2 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| PSY 1XX Psychology Elective (G) | | 3 | 0 | 3 |
| XXX XXX Arts/ Humanities Elective or Natural Science Elective (G) | | 3 | 0 | 3 |
| Semester 2 | | | | |
| WLD 111 | Shielded Metal Arc Welding 1 (B) | 2 | 6 | 4 |
| WLD 115 | Gas Metal Arc Welding and Flux Cored Arc Welding (B) | 2 | 6 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MAT 120 | Technical Mathematics (G) | 2 | 2 | 3 |
| Semester 3 | | | | |
| WLD 260 | Weldability of Metals (T) | 2 | 2 | 3 |
| MET 111 | Manufacturing Processes 1 (T) | 2 | 3 | 3 |
| MET 131 | MET Computer Aided Drafting 1 (T) | 2 | 3 | 3 |
| ENG 10X English Composition Elective (G) Semester 4 | | 3 | 0 | 3 |
| WLD 210 | Gas Tungsten Arc Welding (T) | 2 | 6 | 4 |
| WLD 231 | Pipe Welding 1 (T) | 2 | 6 | 4 |
| CIT 105 | OSHA 10 General Industry Safety (T) | 1 | 0 | 1 |
| XXX XXX Welding Technical Elective (T) Semester 5 | | 2 | 2 | 3 |
| WLD 220 | Metal Fabrication (T) | 2 | 3 | 3 |
| WLD 291 | Full-Time Cooperative Education 1: Welding (T) | 1 | 40 | 2 |
| Semester 6 | | | | |

| WLD 292 | Full-Time Cooperative Education | 1 | 40 | 2 |
|---------------|-----------------------------------|----|-----|----|
| | 2: Welding (T) | | | |
| WLD 250 | Welding Inspection and Codes (T) | 2 | 3 | 3 |
| Total Credits | s: | 42 | 127 | 61 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---|---------------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Psychology Ele | ective | |
| PSY 100 | Applied Psychology: Human Relations | 3 |
| PSY 102 | Applied Psychology: Stress Management | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| Arts/Humanities Elective (take one course from either Arts/ Humanities or Natural Science) | | 3 |

Any ART, FRN, LIT, MUS, PHI, POL, REL, SPN, THE

Natural Sciences Elective (take one course from either Arts/

Humanities or Natural Sciences) Any CHE, EVS, PHY, PSC

| English Composition Elective |
|------------------------------|
|------------------------------|

| ENG 102 | English Composition 2: Contemporary Issues | 3 |
|-----------------|--|---|
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Welding Technic | cal Elective | |
| EET 101 | Electronic Fundamentals 1 | 3 |

| EET 101 | Electronic Fundamentals 1 | 3 |
|---------|-------------------------------|---|
| MET 112 | Manufacturing Processes 2 | 3 |
| MET 132 | MET Computer Aided Drafting 2 | 3 |
| MET 140 | Engineering Materials | 3 |
| WLD 112 | Shielded Metal Arc Welding 2 | 4 |
| WLD 232 | Pipe Welding 2 | 4 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Welding Certificate (WLDC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|-------------------------------|-----|--------|-------|
| WLD 100 | Fundamentals of Welding | 2 | 3 | 3 |
| WLD 105 | Print Reading and Weld Design | 2 | 2 | 3 |
| MAT 120 | Technical Mathematics | 3 | 0 | 3 |
| Semester 2 | | | | |
| WLD 111 | Shielded Metal Arc Welding 1 | 2 | 6 | 4 |
| MET 111 | Manufacturing Processes 1 | 2 | 3 | 3 |
| MET 131 | MET Computer Aided Drafting 1 | 2 | 3 | 3 |
| Semester 3 | | | | |

| WLD 115 | Gas Metal Arc Welding and Flux Cored Arc Welding | 2 | 6 | 4 |
|----------------------------------|---|----|----|----|
| WLD 210 | Gas Tungsten Arc Welding | 2 | 6 | 4 |
| CIT 105 | OSHA 10 General Industry Safety | 1 | 0 | 1 |
| WLD XXX Technical Elective | | 2 | 3 | 3 |
| Total Credits: | | 20 | 32 | 31 |

Electives

Technical Elective

| WLD 112 | Shielded Metal Arc Welding 2 | 4 |
|---------|------------------------------|---|
| WLD 220 | Metal Fabrication | 3 |
| WLD 260 | Weldability of Metals | 3 |

Welding (WLD)

- · Ability to weld in flat, horizontal, vertical, and overhead positions using the basic welding processes SMAW, GMAW, FCAW, and GTAW and pipe.
- · Ability to perform metal layout processes.
- · Ability to cut metals using oxyfuel, plasma, and arc cutting processes.
- · Ability to apply the principles of metallurgy during the welding process.
- · Ability to read and interpret basic blueprints and welding symbols to fabricate components.
- · Ability to apply basic math and measurement to welding processes.
- · Ability to follow industry safety practices.
- · Successful completion of OSHA 10 credential.

Faculty

Program Chair/Advisor

Professor Michael DeVore, PhD, PE michael.devore@cincinnatistate.edu

Co-op Coordinator

Professor Sue Dolan, M.Ed. sue.dolan@cincinnatistate.edu

Health and Public Safety Division

Division Office: Health Professions Building Room 312, Clifton Campus

Division Phone Number: (513) 569-1670

The Health and Public Safety Division at Cincinnati State brings together in one unit all programs for the education and training of health and public safety personnel as well as the Biological Sciences department. When available, the division's programs are accredited or approved by their respective professional bodies.

The Health and Public Safety Division offers clinically and experientially intensive associate's degree and certificate programs that prepare students to seek employment in their chosen field of study immediately following graduation.

The Biological Sciences department offers a range of courses to meet program needs and to support science requirements for students who seek associate's degrees and wish to transfer to institutions that offer bachelor's degrees.

The Public Safety programs work together, and in partnership with Cincinnati State's Workforce Development Center, to offer associate's degrees, certificates, and special courses, workshops, seminars, and forums related to Emergency Medical Services, Fire Service Technology, HazMat, Rescue and Safety, and Safety and Security Management. These programs allow participants to learn new skills or update the knowledge and skills needed to perform effectively on the job.

The division affiliates with area hospitals, health care agencies, fire service organizations, and other educational programs to provide clinical and experiential learning opportunities for health and public safety students.

College Orientation

To set the stage for success in the college experience, degree-seeking students are required to complete a college First Year Experience (FYE) course within the first 12 credit hours taken at Cincinnati State.

Entrance Competencies

In order to ensure a high degree of success in academic studies in health and public safety, entering students must meet established academic levels in mathematics, writing, and reading comprehension. To aid in determining these levels, entering students are required to take the college placement test. If testing and previous academic background indicate that a student has not reached the necessary preparatory level, a divisional advisor will identify a group of classes to help the student reach needed levels. Preparatory classes are available year-round.

Many Health and Public Safety Division programs receive more applications than space allows. Therefore, students may need to complete an additional application process by a designated deadline and complete the steps of a Selective Admission process (sometimes referred to as "Progression") to qualify for all of the courses needed to earn a degree. It is important to keep this information in mind as you create your education plan.

Selective Admission steps may include successfully completing designated courses (in addition to any needed academic foundations classes), taking a program-specific admissions test, and/or maintaining a specified grade point average while taking required courses at the College. A rating system is used to determine which students will progress into the selected program.

Many health programs have physical and cognitive competency requirements for those entering their professions. Information regarding these requirements can be found in the College website description of the program, or in program handbooks or other program literature.

Cooperative Education

The Health and Public Safety Division supports the College's mission of providing educational programs with a combination of theory and

practice. For many programs in the Health and Public Safety Division, experience in the clinical setting is an integral part of the educational process. Both clinical and cooperative education components provide students with the practical experience they need to begin work immediately upon graduation. Individual program descriptions in this section of the Catalog provide specific information about requirements for clinical experience, cooperative education, or internship.

To ensure the safety of students and others, our affiliated partners in the health and public safety community require students to comply with certain criteria prior to beginning clinical and experiential learning. Requirements will vary, but generally include a health examination, immunizations, background screenings, and relevant training. Proof of coverage under a policy of health insurance may also be required. Drug testing may be required at any time during student enrollment in a Health and Public Safety Program, depending on the requirements of the clinical or practicum site.

Cincinnati State strongly recommends that students obtain personal health insurance coverage. Please be aware that lack of coverage under a policy of health insurance may affect a student's eligibility to participate in the clinical learning experience. Information about an optional health insurance plan for purchase by students is available in the Student Activities Office.

Health Student Support Services

Cincinnati State Health and Public Safety Division students are provided comprehensive educational and professional support services to enhance classroom learning and assist in professional development. Support services available to students include special seminars; individualized tutorial assistance; career, personal, and financial counseling; job shadowing opportunities; mentoring; writing and study skills assistance; and assistance developing a re-entry plan following failure in a technical program.

Transfer Module

The Ohio Department of Higher Education developed the Ohio Transfer Module to facilitate transfer of credits from one Ohio public college or university to another. The transfer module contains 36 to 40 semester hours of course credits in the areas of communication, mathematics, arts and humanities, social and behavioral sciences, and natural and physical sciences. A transfer module completed at one college or university automatically meets the requirements for the transfer module at another college or university once the student is admitted. For additional information, see the State of Ohio Policy for Institutional Transfer (p. 174) and the Transfer Module (p. 161) sections of this catalog.

Associate's degree programs in the Health and Public Safety Division contain in their curriculums many of the required courses for the transfer module. Students who wish to complete the transfer module should schedule the additional courses at their convenience. Students who transfer to an Ohio public university for baccalaureate degrees will find that the Cincinnati State Associate of Applied Science degree, combined with a transfer module showing grades of C or higher, receives preferential consideration at the receiving institution.

Advanced Health Careers Preparatory Certificate (AHPC)

Advanced Health Careers Preparatory Certificate (AHPC)

The Advanced Health Careers Preparatory Certificate provides recognition that a student has completed courses required for admission into academic programs in health fields such as Master of Science, Master of Science in Nursing (MSN), Doctor of Pharmacy (Pharm.D), Doctor of Physical Therapy (PTD), or Physician Assistant (PA).

Students must hold a bachelor's degree from an accredited institution of higher education to qualify for program entry.

To earn the certificate, students must complete a minimum of 14 credit hours from the courses listed in the certificate curriculum. A minimum grade of C is required for all courses. If a student does not meet the prerequisites for a listed course, additional courses may be required.

Course selections must be approved by the student's advisor.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Advanced Health Careers Preparatory Certificate (AHPC)

Program Prerequisite: A bachelor's degree from an accredited institution of higher education, or Program Advisor consent, is required to enroll in the certificate program.

| Semester 1 | Lec | Lab C | redits |
|----------------|-----|-------|--------|
| XXX XXX | 3 | 3 | 4 |
| AHPC | | | |
| Elective 1 | | | |
| XXX XXX | 2 | 2 | 3 |
| AHPC | | | |
| Elective 2 | | | |
| Semester 2 | | | |
| XXX XXX | 3 | 3 | 4 |
| AHPC | | | |
| Elective 3 | | | |
| XXX XXX | 2 | 2 | 3 |
| AHPC | | | |
| Elective 4 | | | |
| Total Credits: | 10 | 10 | 14 |

Electives

Advanced Health Careers Preparatory Certificate Electives

Complete at least 14 credits from courses listed below, with a minimum grade of C for all courses. Students must consult with the Program Advisor before registering for courses.

Biology

| BIO 115 | Human Genetics | 3 |
|---------|----------------|---|
|---------|----------------|---|

| BIO 131 | Biology 1 | 5 |
|----------------------|---|---|
| BIO 132 | Biology 2 | 5 |
| BIO 151 | Anatomy and Physiology 1 | 4 |
| BIO 152 | Anatomy and Physiology 2 | 4 |
| BIO 220 | Microbiology | 3 |
| BIO 230 | Pharmacology | 3 |
| BIO 240 | Pathophysiology | 3 |
| BIO 250 | Cell Biology | 5 |
| BIO 260 | Genetics | 5 |
| BIO 270 | Ecology | 5 |
| BIO 275 | Animal Behavior | 5 |
| BIO 240 | Pathophysiology | 3 |
| Chemistry | | |
| CHE 110 | Fundamentals of Chemistry | 4 |
| CHE 111 | Bio-Organic Chemistry | 4 |
| CHE 121 & CHE 131 | General Chemistry 1 and General Chemistry 1 Lab * | 5 |
| CHE 122 & CHE 132 | General Chemistry 2 and General Chemistry 2 Lab * | 5 |
| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab * | 5 |
| CHE 202 & CHE 212 | Organic Chemistry 2 and Organic Chemistry 2 Lab * | 5 |
| Other Electives | | |
| DT 120 | Nutrition for a Healthy Lifestyle | 3 |
| PSY 225 | Lifespan Development | 3 |
| | | |

Must co-register for laboratory course

Faculty

Program Chair/Advisor

Professor Gregory Klein, MS gregory.klein@cincinnatistate.edu

Bioscience Technology & Bioscience Certificate (BSC & BSCC)

Bioscience Technology (BSC)

Bioscience technicians perform procedures in chemical and biotechnology laboratories, pharmaceutical manufacturing facilities, and research laboratories. Students who successfully complete the Bioscience Technology program at Cincinnati State earn an Associate of Applied Science degree while developing the skills important to a successful career in bioscience or biotechnology. These skills include advanced knowledge of biology and chemistry, microbiology, and laboratory techniques.

The curriculum prepares graduates for entry-level employment in bioscience or biotechnology, or for transfer to a bachelor's degree program in biological science or related fields.

Students entering the Bioscience Technology program should have a strong background in or aptitude for the sciences, a willingness to follow structured methods, ability to explore molecules and cells, and a desire to help people and enhance the world through the use of biotechnology.

Bioscience Certificate (BSCC)

The Bioscience Certificate is designed for students exploring a new career path in the biotechnology industry. The certificate curriculum contains less rigorous biology and chemistry requirements than the Bioscience associate's degree program, but has the same laboratory skills courses.

Students who earn the Bioscience Certificate gain experience in aseptic technique, genetic engineering, DNA forensics, protein isolation, DNA electrophoresis technology, and PCR (polymerase chain reaction).

Employees in biotechnology fields are expected to pay close attention to detail, follow detailed protocols, and have the ability to work in clean environments. Employment opportunities for graduates include working as laboratory assistants or technicians in a wide range of industries such as food and flavor testing, pharmaceutical production, microbiological analysis, water quality analysis, and sample management.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Bioscience Technology (BSC)

| Semester 1 | | Lec | Lab Credits | |
|--|---|-----|-------------|---|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| BSC 108 | Bioscience Skills and Regulations (B) | 3 | 3 | 4 |
| BIO 131 | Biology 1 (G) | 3 | 4 | 5 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| BSC 115 | Bioscience Laboratory Methods (T) | 2 | 3 | 3 |
| BIO 132 | Biology 2 (B) | 3 | 4 | 5 |
| ENG 104 | English Composition 2: Technical Communication (G) | 3 | 0 | 3 |
| Semester 3 | | | | |
| MAT 151 | College Algebra (G) | 4 | 0 | 4 |
| CHE 121 | General Chemistry 1 (B) | 4 | 0 | 4 |
| CHE 131 | General Chemistry 1 Lab (B) | 0 | 3 | 1 |
| BSC 150 | Scientific Literacy for Bioscience (B) | 2 | 0 | 2 |

| XXX XXX | | 3 | 0 | 3 | |
|-------------------------------|---------------------------------------|---------|------|----|--|
| Arts/ | | 3 | U | 3 | |
| Humanities | | | | | |
| Elective | | | | | |
| or Social/ | | | | | |
| Behavioral Science | | | | | |
| Elective (G) | | | | | |
| Semester 4 | | | | | |
| BSC 205 | Molecular Genetics Laboratory (T) | 2 | 6 | 5 | |
| CHE 122 | General Chemistry 2 (T) | 4 | 0 | 4 | |
| CHE 132 | General Chemistry 2 Lab (T) | 0 | 3 | 1 | |
| BIO XXX | , , , | 3 | 0 | 3 | |
| Biology | | | | | |
| Elective (T) | | | | | |
| Semester 5 | | | | | |
| BSC 210 | Protein Purification and Analysis (| 2 | 6 | 5 | |
| V/V/ V/V/ | T) | | 0 | 0 | |
| XXX XXX Bioscience | | 1 | 2 | 2 | |
| Elective (T) | | | | | |
| CHE XXX | | 4 | 0 | 4 | |
| Organic | | | | | |
| Chemistry | | | | | |
| Elective (T) | | | | | |
| Semester 6 | | | | | |
| BSC XXX Bioscience | | 1 | 20 | 1 | |
| Experiential | | | | | |
| Learning | | | | | |
| Elective (T) | | | | | |
| Total Credits: | : | 48 | 54 | 63 | |
| Electives | S | | | | |
| First Year Ex | xperience Elective | | | | |
| FYE 100 | College Survival Skills | | | 1 | |
| FYE 105 | College Success Strategies | | | 2 | |
| FYE 110 | Community College Experience | | | 3 | |
| Biology Elec | ctive | | | | |
| BIO 220 | Microbiology | | | 3 | |
| BIO 230 | Pharmacology | | | 3 | |
| BIO 240 | Pathophysiology | | | 3 | |
| BIO 250 | Cell Biology | | | 5 | |
| BIO 260 | Genetics | | | 5 | |
| BIO 270 | Ecology | | | 5 | |
| BIO 275 | Animal Behavior | | | 5 | |
| Bioscience I | Elective | | | | |
| BSC 120 | Cell Culture | | | 2 | |
| BSC 160 | Quality and Compliance in Bioma | nufactu | ring | 3 | |
| BSC 230 | Introduction to Bioinformatics | | | 3 | |
| MET 230 | Quality Control and Six Sigma | | | 4 | |
| EVT 168 | Radiation Safety | | | 2 | |
| EVT 170 | · · · · · · · · · · · · · · · · · · · | | | 4 | |
| Organic Chemistry Elective | | | | | |
| CHE 111 Bio-Organic Chemistry | | | | | |

| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab | 5 |
|----------------------|--|---|
| | Elective or Social/Behavioral Science | |
| CULT 105 | Issues in Human Diversity | 3 |
| CULT 110 | Social Issues in Technology | 3 |
| PHI 110 | Ethics | 3 |
| PSY 100 | Applied Psychology: Human Relations | 3 |
| PSY 102 | Applied Psychology: Stress Management | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| SOC 100 | Survey of Social Issues | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| Bioscience Expe | eriential Learning Elective | |
| BSC 280 | Bioscience Capstone Project | 2 |
| BSC 191 | Part-Time Cooperative Education 1: Bioscience | 1 |
| BSC 291 | Full-Time Cooperative Education 1: Bioscience | 2 |
| BSC 294 | Internship 1: Bioscience | 2 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Bioscience Certificate

Program Prerequisite: AFM 097 (minimum grade C) or appropriate placement test score

| Semester 1 | | Lec | Lab C | redits |
|----------------|-----------------------------------|-----|-------|--------|
| BSC 108 | Bioscience Skills and Regulations | 3 | 3 | 4 |
| BIO 111 | Biology: Unity of Life | 3 | 2 | 4 |
| MAT 151 | College Algebra | 4 | 0 | 4 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| Semester 2 | | | | |
| CHE 110 | Fundamentals of Chemistry | 3 | 3 | 4 |
| BSC 115 | Bioscience Laboratory Methods | 2 | 3 | 3 |
| BIO 115 | Human Genetics | 3 | 0 | 3 |
| BSC 280 | Bioscience Capstone Project | 0 | 4 | 2 |
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| Total Credits: | | 24 | 15 | 30 |

Bioscience Technology (BSC)

- Demonstrate knowledge related to laboratory safety.
- Demonstrate knowledge of and practice aseptic technique.
- Demonstrate knowledge of and practice GDP/GLP/GMP Good Documentation Procedures, Good Laboratory Procedures, and Good Manufacturing Procedures.
- Set up and conduct experiments, tests, and analysis using techniques such as pipetting, cell culture, enzymatic reactions, DNA extraction and isolation, gel electrophoresis, polymerase chain reactions, and protein purification microbiological techniques.

- Demonstrate ability to effectively follow a Standard Operating Procedure.
- Demonstrate ability to effectively write a Standard Operating Procedure.
- · Evaluate and analyze data.
- Present data in a way that effectively supports hypotheses.
- · Write in a scientific manner.
- Present research to peers and incorporate criticism.

Faculty

Advisor

Professor Gregory Klein, MS gregory.klein@cincinnatistate.edu

Diagnostic Medical Sonography (DMSC & DMSG)

Diagnostic Medical Sonography - Cardiovascular (DMSC) or General Imaging (DMSG)

The diagnostic medical sonographer is a highly-skilled professional who uses specialized equipment to create diagnostic images.

The Diagnostic Medical Sonography program at Cincinnati State prepares students to become entry-level diagnostic medical sonographers in two specialty areas:

- · Cardiac and vascular sonography (DMSC)
- Abdominal, obstetric, and gynecological sonography (DMSG)

Program graduates earn an Associate of Applied Science degree that includes general education and technical sonography courses. The program also includes supervised clinical experience on site at various health care facilities in the Greater Cincinnati area. Clinical experiences are unpaid.

Courses in this program are scheduled primarily between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Students must have a minimum grade point average (GPA) of 2.75 to graduate. Graduates are eligible to take the American Registry of Diagnostic Medical Sonographers national certification examination.

The program is accredited by The Commission of Accreditation of Allied Health Education Programs, 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33756. Website: http://www.caahep.org. Phone: (727) 210-2350. FAX: (727) 210-2354.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Diagnostic Medical Sonography— Cardiovascular (DMSC)

Students seeking admission to the Diagnostic Medical Sonography - Cardiovascular program must complete specific requirements.

After completing Semester 2 of Year 1, students should apply for selective enrollment into the DMS program. Year 2 courses begin in Fall Semester. Students should meet with their academic advisor to discuss eligibility and deadlines for selective enrollment.

| First Year | | | | |
|-----------------------|---|-----|-------|--------|
| Semester 1 | | Lec | Lab C | redits |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| MCH 104 | Comprehensive Medical Terminology (B) | 3 | 0 | 3 |
| BIO 151 | Anatomy and Physiology 1 (G) | 3 | 2 | 4 |
| MAT 161 | College Algebra for Diagnostic Medical Sonography (G) | 3 | 2 | 4 |
| Semester 2 | | | | |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| DMS 100 | Survey of Sonography (B) | 2 | 2 | 3 |
| PHY 110 | Health Physics (B) | 2 | 3 | 3 |
| MCH 1XX | | 2 | 0 | 2 |
| Multicompete | ncy | | | |
| Healthcare | | | | |
| Elective (B) | : V 4 O 1 4 4 O | | | |
| | ing Year 1, Semester 1 and 2 y for Selective Enrollment into the | | | |
| DMSC progra | - | | | |
| Second Year | | | | |
| Semester 1 | | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| DMSC 110 | Advanced Electrocardiography (| 1 | 2 | 2 |
| | B) | | | |
| DMS 111 | Sonographic Principles and Instrumentation 1 (T) | 3 | 0 | 3 |
| DMSC 120 | Cardiovascular Sonography (T) | 3 | 0 | 3 |
| DMSC 121 | Cardiovascular Sonography Scan Lab 1 (T) | 0 | 6 | 2 |
| Semester 2 | | | | |
| ENG 10X | | 0 | 3 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| DMS 112 | Sonographic Principles and Instrumentation 2 (T) | 2 | 0 | 2 |
| DMSC 122 | Cardiovascular Sonography Scan Lab 2 (T) | 0 | 6 | 2 |
| DMSC 131 | Vascular Sonography 1 (T) | 3 | 0 | 3 |
| DMSC 141 | Echocardiography 1 (T) | 3 | 0 | 3 |
| Semester 3 | | | | |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| DMSC 223 | Cardiovascular Sonography Scan Lab 3 (T) | 0 | 3 | 1 |
| DMSC 281 | Cardiovascular Internship 1 (T) | 0 | 24 | 1 |
| Third Year | . , , | | | |
| Semester 1 | | | | |
| | | | | |

| DMSC 224 | Cardiovascular Sonography Scan Lab 4 (T) | 0 | 4 | 2 |
|----------------|--|----|-----|----|
| DMSC 232 | Vascular Sonography 2 (T) | 2 | 0 | 2 |
| DMSC 242 | Echocardiography 2 (T) | 2 | 0 | 2 |
| DMSC 282 | Cardiovascular Internship 2 (T) | 0 | 24 | 1 |
| Semester 2 | | | | |
| DMSC 250 | Cardiovascular Imaging Seminar (T) | 1 | 2 | 2 |
| DMSC 283 | Cardiovascular Internship 3 (T) | 0 | 32 | 2 |
| Total Credits: | | 45 | 117 | 66 |

Electives

| First | Year | Experience | Flective |
|-------|-------|--------------|----------|
| IIIOL | ı caı | -vnci iciice | LICCLIVE |

| FYE 100 | College Survival Skills | 1 |
|-------------------------------|--|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | osition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| Maritina a service a facility | and the state of t | |

Multicompetency Healthcare Elective

| MCH 138 | Patient Care Skills | 2 |
|---------|---------------------|---|
| MCH 130 | Nurse Aide Training | 5 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Diagnostic Medical Sonography— General Imaging (DMSG)

Students seeking admission to the Diagnostic Medical Diagnostic Medical Sonography - General Imaging program must complete specific requirements. After completing Semester 2 of Year 1, students should apply for selective enrollment into the DMS program. Year 2 courses begin in Fall Semester. Students should meet with their academic advisor to discuss eligibility and deadlines for selective enrollment.

| First | Year |
|-------|------|
|-------|------|

| Semester 1 | | Lec | Lab Cr | edits |
|--------------|--------------------------------|-----|--------|-------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| MCH 104 | Comprehensive Medical | 3 | 0 | 3 |
| | Terminology (B) | | | |
| BIO 151 | Anatomy and Physiology 1 (G) | 3 | 2 | 4 |
| MAT 161 | College Algebra for Diagnostic | 3 | 2 | 4 |
| | Medical Sonography (G) | | | |

| Semester 2 | | | | |
|-------------------------------------|--|----|-----|----|
| DMS 100 | Survey of Sonography (B) | 2 | 2 | 3 |
| PHY 110 | Health Physics (G) | 2 | 3 | 3 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| MCH 1XX | | 2 | 0 | 2 |
| Multicompete | ency | | | |
| Healthcare Elective (B) | | | | |
| ` ' | ting Year 1, Semester 1 and 2 | | | |
| | ly for Selective Enrollment into the | | | |
| DMSG progra | am. | | | |
| Second Yea | r | | | |
| Semester 1 | | | | |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| DMSG 110 | Sterile Techniques (B) | 1 | 2 | 2 |
| DMS 111 | Sonographic Principles and | 3 | 0 | 3 |
| D1400 400 | Instrumentation 1 (T) | | | |
| DMSG 120 | General Imaging Sonography (T) | 3 | 0 | 3 |
| DMSG 121 | General Imaging Sonography Scan Lab 1 (T) | 0 | 6 | 2 |
| Semester 2 | Coan Lab 1 (1) | | | |
| ENG 10X | | 0 | 3 | 3 |
| English | | ŭ | | |
| Composition | | | | |
| Elective (G) | | | | |
| DMS 112 | Sonographic Principles and | 2 | 0 | 2 |
| DMSG 122 | Instrumentation 2 (T) | 0 | 6 | 2 |
| DIVISO 122 | General Imaging Sonography Scan Lab 2 (T) | U | O | 2 |
| DMSG 131 | Abdominal Sonography 1 (T) | 3 | 0 | 3 |
| DMSG 141 | Obstetrics and Gynecology | 3 | 0 | 3 |
| | Sonography 1 (T) | | | |
| Semester 3 | | | | |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| DMSG 223 | General Imaging Sonography Scan Lab 3 (T) | 0 | 3 | 1 |
| DMSG 281 | General Imaging Internship 1 (T) | 0 | 24 | 1 |
| Third Year | Conordi inaging internettip 1 (1) | Ü | | • |
| Semester 1 | | | | |
| DMSG 224 | General Imaging Sonography | 0 | 4 | 2 |
| | Scan Lab 4 (T) | | | |
| DMSG 232 | Abdominal Sonography 2 (T) | 2 | 0 | 2 |
| DMSG 242 | Obstetrics and Gynecology Sonography 2 (T) | 2 | 0 | 2 |
| DMSG 282 | General Imaging Internship 2 (T) | 0 | 24 | 1 |
| Semester 2 | | | | |
| DMSG 250 | General Imaging Seminar (T) | 2 | 0 | 2 |
| DMSG 283 | General Imaging Internship 3 (T) | 0 | 32 | 2 |
| Total Credits | : | 46 | 115 | 66 |

Electives

FYE Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|----------------------------|---|
| FYE 105 | College Success Strategies | 2 |

| FYE 110 | Community College Experience | 3 |
|----------------|---|---|
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| Multicompetenc | y Healthcare Elective | |
| MCH 138 | Patient Care Skills | 2 |
| MCH 130 | Nurse Aide Training | 5 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Diagnostic Medical Sonography - Cardiovascular (DMSC)

- Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results.
- Perform appropriate procedures and record anatomic, pathologic, and/or physiologic data for interpretation by a physician.
- Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician.
- Demonstrate effective communication skills with patients and all members of the healthcare team.
- Act in a professional manner within recognized ethical and legal standards
- Demonstrate knowledge of sonographic biological effects and proper application of sonographic instrumentation relative to imaging and image quality.
- Demonstrate the ability to perform adult cardiac sonographic examinations according to protocol guidelines established by national professional organizations and the protocols of the employing institutions utilizing real-time equipment and Doppler display modes.
- Demonstrate the ability to perform vascular sonographic examinations according to protocol guidelines established by national professional organizations and the protocols of the employing institutions utilizing real-time equipment, Doppler display modes, and physiologic testing.

Diagnostic Medical Sonography - General (DMSG)

- Obtain, review, and integrate pertinent patient history and supporting clinical data to facilitate optimum diagnostic results.
- Perform appropriate procedures and record anatomic, pathologic, and/or physiologic data for interpretation by a physician.
- Record, analyze, and process diagnostic data and other pertinent observations made during the procedure for presentation to the interpreting physician.

- Demonstrate effective communication skills with patients and all members of the healthcare team.
- Act in a professional manner within recognized ethical and legal standards.
- Demonstrate knowledge of sonographic biological effects and proper application of sonographic instrumentation relative to imaging and image quality.
- Demonstrate the ability to perform sonographic examinations of the abdomen, superficial structures, and non-cardiac chest according to protocol guidelines established by national professional organizations and the protocols of the employing institutions utilizing real-time equipment and Doppler display modes.
- Demonstrate the ability to perform sonographic examinations of the gravid and nongravid pelvis according to protocol guidelines established by national professional organizations and the protocols of the employing institutions utilizing real-time equipment with both transabdominal and endocavitary transducers, and Doppler display modes.

Faculty

Program Chair

Tina Cisle, MS, RDMS, RDCS, RVT tina.cisle@cincinnatistate.edu

Experiential Learning Coordinator

Cathy Ridsdale cathy.ridsdale@cincinnatistate.edu

Health and Fitness Technology (HFT)

Health and Fitness Technology (HFT)

The health and fitness technician works in many areas of health promotion, and must be able to motivate clients, adapt exercises to client needs, and monitor the safety and progress of clients.

Graduates of the Health and Fitness Technology program earn an Associate of Applied Science degree, while gaining knowledge and skills in anatomy and physiology, foundations of exercise, health and wellness principles, and emergency procedures. Graduates also gain business and computer skills.

While completing requirements for the associate's degree, students complete the Personal Fitness Trainer certificate and may also complete one or more of the following certificates: Group Fitness Instructor, Pilates Mat Instructor, Resistance Training, or Yoga Teacher Training.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Health and Fitness Technology (HFT)

Semester 1 Lec Lab Credits
ENG 101 English Composition 1 (G) 3 0 3

| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
|--|--|----|-----|----|
| MAT 105 | Quantitative Reasoning (G) | 2 | 2 | 3 |
| HFT 130 | Foundations of Health and Wellness Programs (B) | 2 | 2 | 3 |
| Semester 2 | | | | |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| BIO 151 | Anatomy and Physiology 1 (B) | 3 | 2 | 4 |
| PE 1XX | | 0 | 2 | 1 |
| Physical | | | | |
| Education | | | | |
| Elective 1 (B) | | | | |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| Semester 3 | | | | |
| EMS 100 | CPR and First Aid for the Health Care Professional (B) | 1 | 0 | 1 |
| COMM 110 | Public Speaking (G) | 3 | 0 | 3 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| HFT 151 | Personal Fitness Trainer 1 (T) | 2 | 2 | 3 |
| HFT XXX | , | 3 | 0 | 3 |
| Special Populations Elective (T) | | Ū | · · | J |
| Semester 4 | | | | |
| HFT 250 | Exercise Physiology (T) | 3 | 2 | 4 |
| HFT 152 | Personal Fitness Trainer 2 (T) | 2 | 2 | 3 |
| | , , | | | |
| HFT 156 | Establishing a Personal Training Business (T) | 3 | 0 | 3 |
| HFT 182 | Personal Fitness Trainer Practicum (T) | 1 | 7 | 2 |
| DT 120 | Nutrition for a Healthy Lifestyle (B) | 3 | 0 | 3 |
| Semester 5 | | | | |
| HFT 260 | Health and Fitness Program Design (T) | 2 | 2 | 3 |
| HFT 294 | Internship: Health and Fitness Technology (T) | 1 | 40 | 2 |
| XXX XXX | | 3 | 0 | 3 |
| Health and | | | | |
| Fitness | | | | |
| Elective (T) | | | | |
| HFT 255 | | 3 | 0 | 3 |
| Anatomical | | | | |
| Kinesiology | | | | |
| (T) | | _ | _ | |
| PE 1XX | | 0 | 2 | 1 |
| Physical Education | | | | |
| Elective 2 (B) | | | | |
| | | FO | 67 | 60 |
| Total Credits: | | 50 | 67 | 62 |

Electives

English Composition Elective

| (Health Fitness for Special Populations) | | 3 | | |
|---|---|---|--|--|
| ENG 103 | English Composition 2: Writing about Literature | 3 | | |
| ENG 104 | English Composition 2: Technical Communication | 3 | | |
| ENG 105 | English Composition 2: Business Communication | 3 | | |
| Health and Fitne | ess for Special Populations Elective | | | |
| HFT 164 | Health and Fitness Across the Life Span 1 | 3 | | |
| HFT 168 | Health and Fitness Across the Life Span 2 | 3 | | |
| Physical Educat | tion Electives (2 credit hours required) | | | |
| Any PE | | | | |
| Health and Fitne | ess Elective (3 credit hours required) | | | |
| Group Fitness In | structor Certificate (GFIC) | | | |
| HFT 122 | Group Fitness Instructor | 4 | | |
| Pilates Mat Instructor Certificate (PMIC) | | | | |
| HFT 116 | Pilates Mat Instructor | 2 | | |
| HFT 180 | Pilates Mat Practicum | 2 | | |
| Resistance Train | ing Certificate (RSTC) | | | |
| HFT 124 | Resistance Training Instructor | 4 | | |
| Yoga Teacher Tr | aining Certificate (YIC) | | | |
| HFT 118 | Yoga Teacher Training 1 | 5 | | |
| HFT 119 | Yoga Teacher Training 2 | 5 | | |
| HFT 184 | Yoga Internship 1 | 2 | | |
| HFT 185 | Yoga Internship 2 | 2 | | |
| Aquatics Group F | Fitness Instructor Certificate (AFIC) | | | |
| HFT 128 | Aquatic Group Fitness Instructor | 4 | | |
| Aquatics Persona | al Fitness Instructor Certificate (APFTC) | | | |
| HFT 160 | Aquatic Personal Trainer | 2 | | |
| Dietetic Technolo | ogy | | | |
| DT 135 | Sports Nutrition | 3 | | |

English Composition 2: Contemporary Issues

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B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Health and Fitness Technology (HFT)

- Demonstrate an understanding of basic human anatomy and physiology.
- Explain fitness and wellness concepts and the relationship between physical activity and good health.
- Assess the health status of exercise participants using appropriate screening tools.
- Conduct valid and reliable fitness assessments to facilitate effective program design.
- Design safe and effective exercise programs based on scientific principles that will achieve individual fitness goals.

- · Demonstrate a variety of safe and effective exercises.
- Effectively communicate with clients, fitness professionals, and other health care providers

Faculty

Program Chair/Advisor (All Health & Fitness programs)

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Aquatic Group Fitness Instructor & Aquatic Personal Trainer Certificates (AFIC & APFTC)

Aquatic Group Fitness Instructor Certificate (AFIC)

The Aquatic Group Fitness Instructor certificate prepares students to design and lead comprehensive aquatic classes for clients at various fitness levels. Program graduates are prepared to take the Aquatic Exercise Association (AEA) national certification examination to become a Certified Aquatic Fitness Professional.

Graduates may be employed by health clubs, corporate fitness centers, recreation programs, hospitals, or senior centers. Job activities may include designing safe aquatic classes, scheduling classes, and assisting clients with goal setting and motivation.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Aquatic Personal Trainer Certificate (APFTC)

The Aquatic Personal Trainer Certificate is designed for experienced personal trainers who want to expand their services by providing personal training for clients in an aquatic environment. Students learn about the effects of water properties on exercise programming, formats for aquatic exercise, and how to monitor exercise intensity in aquatic environments.

Graduates may be employed by health clubs, fitness centers, or wellness centers. Job activities may include fitness testing and risk factor identification, conducting individual and group exercise programs, counseling clients on behavior modifications, and designing individualized fitness programs.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Aquatic Group Fitness Instructor Certificate (AFIC)

Program Prerequisites: Meet with Program Chair.

| Semester 1 | | Lec | Lab Cr | edits |
|----------------|--|-----|--------|-------|
| EMS 100 | CPR and First Aid for the Health Care Professional | 1 | 0 | 1 |
| HFT 128 | Aquatic Group Fitness Instructor | 3 | 2 | 4 |
| Total Credits: | | 4 | 2 | 5 |

Aquatic Personal Trainer Certificate (APFTC)

Program Prerequisites: Meet with Program Chair, and hold a nationally accredited Personal Training Certificate.

| Semester 1 | | Lec | Lab Cr | edits |
|----------------|--|-----|--------|-------|
| EMS 100 | CPR and First Aid for the Health Care Professional | 1 | 0 | 1 |
| HFT 160 | Aquatic Personal Trainer | 1 | 2 | 2 |
| Total Credits: | | 2 | 2 | 3 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Group Fitness Instructor Certificate (GFIC)

Group Fitness Instructor Certificate (GFIC)

The Group Fitness Instructor certificate prepares students for job activities such as designing safe classes for traditional and/or step aerobic exercises, scheduling classes, setting goals, and motivating participants.

Graduates are prepared to take a national certification examination to become a Certified Group Fitness Instructor. Graduates may work in health clubs, corporate fitness centers, aerobic studios, or recreation programs.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Group Fitness Instructor Certificate (GFIC)

Program Prerequisites: Meet with Program Chair.

| Semester 1 | | Lec | Lab Cr | edits |
|------------|----------------------------------|-----|--------|-------|
| EMS 100 | CPR and First Aid for the Health | 1 | 0 | 1 |
| | Care Professional | | | |

| HFT 122 | Group Fitness Instructor | 3 | 2 | 4 |
|---------------|--------------------------|---|---|---|
| Total Credits | : | 4 | 2 | 5 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Health and Fitness Special Populations Certificate (HFSPC)

Health and Fitness Special Populations Certificate (HFSPC)

The Health and Fitness Special Populations Certificate prepares students to work in the field of health and fitness with a wide range of individuals including clients with chronic diseases, youth, older adults, and clients concerned with women's health.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Health and Fitness Special Populations Certificate (HFSPC)

Program Prerequisites: Meet with Program Chair

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|---|-----|--------|-------|
| HFT 130 | Foundations of Health and Wellness Programs | 2 | 2 | 3 |
| Semester 2 | | | | |
| HFT 164 | Health and Fitness Across the Life Span 1 | 3 | 0 | 3 |
| HFT 168 | Health and Fitness Across the Life Span 2 | 3 | 0 | 3 |
| Total Credits | : | 8 | 2 | 9 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Personal Fitness Trainer Certificate (PFTC)

Personal Fitness Trainer Certificate (PFTC)

The Personal Fitness Trainer Certificate prepares students to develop safe fitness programs focused on health maintenance for healthy individuals. Graduates may be employed by health clubs, fitness centers, or wellness centers. Job activities may include fitness testing, identifying risk factors, conducting individual and group exercise

programs, counseling clients in behavior modification, and designing individualized fitness programs.

Graduates are prepared to take the American College of Sports Medicine (ACSM) Certified Personal Trainer exam.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Personal Fitness Trainer Certificate (PFTC)

Program Prerequisites: AFL 085 and AFM 092 (minimum grade of C for both) or appropriate placement scores, and meet with Program Chair

| Semester 1 | | Lec | Lab C | redits |
|----------------|--|-----|-------|--------|
| EMS 100 | CPR and First Aid for the Health Care Professional | 1 | 0 | 1 |
| HFT 151 | Personal Fitness Trainer 1 | 3 | 2 | 3 |
| HFT 130 | Foundations of Health and Wellness Programs | 2 | 2 | 3 |
| Semester 2 | | | | |
| HFT 152 | Personal Fitness Trainer 2 | 3 | 2 | 3 |
| HFT 156 | Establishing a Personal Training Business | 3 | 0 | 3 |
| HFT 182 | Personal Fitness Trainer Practicum | 1 | 7 | 2 |
| Total Credits: | : | 13 | 13 | 15 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Pilates Mat Instructor Certificate (PMIC)

Pilates Mat Instructor Certificate (PMIC)

The Pilates Mat Instructor Certificate prepares students to develop safe and effective Pilates Mat exercise classes for a variety of fitness levels. Individuals who complete this certificate will be prepared to teach Pilates Mat to people of all body types, ages, and physical conditions.

Graduates may be employed by health clubs, wellness centers, and university recreation centers. Graduates are prepared to take the national certification examination to become a Certified Pilates Mat Instructor.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Pilates Mat Instructor Certificate (PMIC)

Program Prerequisites: Meet with Program Chair

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|--|-----|--------|-------|
| EMS 100 | CPR and First Aid for the Health Care Professional | 1 | 0 | 1 |
| HFT 116 | Pilates Mat Instructor | 1 | 2 | 2 |
| HFT 180 | Pilates Mat Practicum | 1 | 7 | 2 |
| Total Credits | : | 3 | 9 | 5 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Resistance Training Certificate (RSTC)

Resistance Training Certificate (RSTC)

The Resistance Training Certificate prepares students to develop safe, effective, and efficient resistance training programs. Students evaluate biomedical, physiological, and genetic factors affecting strength and muscle tissue gain and learn proper form, technique, and spotting for resistance exercises using body weight, free weights, resistance machines, and other resistance-training disciplines.

Graduates may be employed as corporate, community, or hospitalbased fitness and personal resistance program trainers.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Resistance Training Certificate (RSTC)

Program Prerequisite: Meet with Program Chair

| Semester 1 | | Lec | Lab Cr | edits |
|----------------|--|-----|--------|-------|
| EMS 100 | CPR and First Aid for the Health Care Professional | 1 | 0 | 1 |
| HFT 124 | Resistance Training Instructor | 3 | 2 | 4 |
| Total Credits: | | 4 | 2 | 5 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Yoga Teacher Training Certificate (YIC)

Yoga Teacher Training Certificate (YIC)

The Yoga Teacher Training Certificate prepares students to design yoga sequences for healthy adults, along with an introduction to designing yoga routines for children, pregnant women, and older adults. The certificate also covers other key aspects of yoga practice.

Graduates of the certificate program qualify for registration with the National Yoga Alliance as a Registered Yoga Teacher (RYT) at the 200-hour level.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Yoga Teacher Training Certificate (YIC)

Program Prerequisites: Meet with Program Chair

| Semester 1 | | Lec | Lab C | redits |
|----------------|-------------------------|-----|-------|--------|
| HFT 118 | Yoga Teacher Training 1 | 3 | 4 | 5 |
| HFT 184 | Yoga Internship 1 | 1 | 2 | 2 |
| Semester 2 | | | | |
| HFT 119 | Yoga Teacher Training 2 | 3 | 4 | 5 |
| HFT 185 | Yoga Internship 2 | 1 | 2 | 2 |
| Total Credits: | | 8 | 12 | 14 |

Faculty

Advisor

Melinda (Mindy) Piles, MEd, ACSM EP-C, CPT melinda.piles@cincinnatistate.edu

Health Information Management Technology & Coding Specialist Certificate (HIM & COC)

Health Information Management Technology (HIM)

The Health Information Management program at Cincinnati State focuses on the maintenance of health care data and management of information resources. Health Information Management professionals collect, integrate, and analyze primary and secondary health care data; disseminate information; and manage information resources related to the research, planning, provision, payment, and evaluation of health care services.

Graduates earn an Associate of Applied Science degree, and are prepared to take the national certification examination for registered health information technicians (RHIT) offered through the American Health Information Management Association.

Students must have a minimum grade point average (GPA) of 2.75 to graduate.

All of the core courses in the Health Information Management program are offered online.

The Health Information Management Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Website: http://www.cahiim.org.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Coding Specialist Certificate (COC)

In many instances, financial reimbursement to patients or medical professionals for healthcare services is tied to the use of standard numeric coding systems. The Coding Specialist Certificate prepares students for entry-level positions applying these codes to healthcare records in hospitals, outpatient clinics, physician group practices, billing companies, and insurance companies.

Students learn to accurately determine code assignments using ICD and CPT coding systems.

Graduates of the certificate program may take an entry-level certification exam offered by the American Health Information Management Association (AHIMA). Successful completion of the exam earns the credential Certified Coding Associate (CCA).

Professional organizations that offer advanced certification recommend coding education along with experience in the field prior to pursuing certification. Individuals should evaluate their knowledge and experience prior to considering an advanced certification examination.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Health Information Management Technology (HIM)

Semester 1 **Lab Credits** Lec FYE 1XX 0 First Year Experience Elective (**B**) HIM 100 Introduction to Health Information 3 3 0 Management (B) Legal Aspects of Health 2 HIM 105 Information Management (B) **BIO 151** Anatomy and Physiology 1 (B) 3 2 4

| MAT 1XX Math Elective (G) Semester 2 | | 2 | 2 | 3 |
|--|---|----|----|----|
| HIM 115 | Clinical Abstracting of Health Data | 2 | 0 | 2 |
| | (B) | | | |
| HIM 120 | Health Information Technology Systems (T) | 3 | 0 | 3 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| MCH 1XX Medical Terminology Elective (T) | | 3 | 0 | 3 |
| IM 120 | Electronic Spreadsheets: Microsoft Excel (T) | 2 | 3 | 3 |
| Semester 3 | | | | |
| HIM 110 | Healthcare Quality Management and Data Analysis (T) | 4 | 0 | 4 |
| HIM 130 | International Classification of Diseases (ICD) Coding (T) | 4 | 0 | 4 |
| HIM 135 | Pharmacology for Health Information Management (B) | 1 | 0 | 1 |
| BIO 240 | Pathophysiology (G) | 3 | 0 | 3 |
| Semester 4 | | | | |
| HIM 210 | Healthcare Reimbursement Methodologies (T) | 3 | 0 | 3 |
| HIM 215 | Advanced Medical Coding (T) | 4 | 0 | 4 |
| HIM 225 | Current Procedural Terminology (CPT) Coding (T) | 3 | 0 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| Semester 5 | | | | |
| HIM 200 | Health Information Management Strategies (T) | 3 | 0 | 3 |
| HIM 220 | Health Information Management Certification Exam Review (T) | 2 | 0 | 2 |
| HIM 280 | Health Information Management Professional Practice (T) | 0 | 7 | 1 |
| ENG 10X | | 3 | 0 | 3 |
| English Composition Elective (G) | | | | |
| PSY 1XX | | 3 | 0 | 3 |
| Psychology Elective (G) | | | | |
| Total Credits: | | 60 | 16 | 65 |
| | | | | |

Electives

FYE 100

First Year Experience Elective

| FYE 105 | College Success Strategies | 2 |
|---------------|--|---|
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

College Survival Skills

| Psychology Ele | ective | |
|----------------------|---|---|
| PSY 100 | Applied Psychology: Human Relations | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| Medical Termin | nology Elective | |
| MCH 104 | Comprehensive Medical Terminology | 3 |
| MCH 101 & MCH 102 | Medical Terminology 1 and Medical Terminology 2 | 4 |
| Math Elective | | |
| MAT 105 | Quantitative Reasoning | 3 |
| MAT 115 | Pre-Statistics | 3 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Coding Specialist Certificate (COC)

| Semester 1 | | Lec | Lab C | redits |
|--|---|-----|-------|--------|
| FYE 1XX First Year Experience Elective | | 1 | 0 | 1 |
| HIM 100 | Introduction to Health Information Management | 3 | 0 | 3 |
| BIO 151 | Anatomy and Physiology 1 | 3 | 2 | 4 |
| Semester 2 | | | | |
| HIM 115 | Clinical Abstracting of Health Data | 2 | 0 | 2 |
| BIO 152 | Anatomy and Physiology 2 | 3 | 2 | 4 |
| MCH 1XX Medical Terminology Elective (T) | | 3 | 0 | 3 |
| Semester 3 | | | | |
| HIM 130 | International Classification of Diseases (ICD) Coding | 4 | 0 | 4 |
| HIM 135 | Pharmacology for Health Information Management | 1 | 0 | 1 |
| BIO 240 | Pathophysiology | 3 | 0 | 3 |
| Semester 4 | | | | |
| HIM 210 | Healthcare Reimbursement Methodologies | 3 | 0 | 3 |
| HIM 215 | Advanced Medical Coding | 4 | 0 | 4 |
| HIM 225 | Current Procedural Terminology (CPT) Coding | 3 | 0 | 3 |
| Total Credits | : | 33 | 4 | 35 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|----------------------------|---|
| FYE 105 | College Success Strategies | 2 |

| FYE 110 | Community College Experience | 3 |
|--------------|-----------------------------------|---|
| Medical Term | ninology Elective | |
| MCH 104 | Comprehensive Medical Terminology | 3 |
| MCH 101 | Medical Terminology 1 | 4 |
| & MCH 102 | and Medical Terminology 2 | |

Health Information Management Technology (HIM)

- · Apply diagnosis/procedure codes according to current guidelines.
- · Apply diagnostic/procedural groupings.
- Verify the documentation in the health record is timely, complete, and accurate.
- Apply policies and procedures to ensure the accuracy and integrity of health data.
- Apply policies and procedures surrounding issues of access and disclosure of protected health information.
- Utilize software in the completion of HIM processes.
- Apply policies and procedures for the use of data required in healthcare reimbursement.
- · Comply with ethical standards of practice.
- Demonstrate effective and professional written and verbal communication skills.

Faculty

Program Chair/Advisor

Professor Cindy Kneip, RHIA cindy.kneip@cincinnatistate.edu

Health Sciences Technology (HSCT)

Health Sciences Technology (HSCT)

The Health Sciences Technology program at Cincinnati State offers a flexible curriculum designed to meet the changing needs of the healthcare field. Students are trained to perform multiple functions in more than one healthcare-related discipline, while working toward completion of an Associate of Applied Science degree.

To complete the associate's degree requirements, students combine certificate program coursework (chosen from the certificates listed in the curriculum) with core technical coursework in areas such as science, medical terminology, and professional standards. Students also complete courses in communication and other foundation skill areas.

Students must meet with an advisor before deciding on their areas of study.

Most program graduates are employed in a field related to one of their completed certificates.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Health Sciences Technology (HSCT)

| Semester 1 | | Lec | Lab C | redits |
|--|---|-----|-------|--------|
| MCH 100 | Healthcare Informatics (T) | 2 | 0 | 2 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| XXX XXX Certificate Electives 1 (T) | | 4 | 2 | 5 |
| MAT 105 | Quantitative Reasoning (G) | 2 | 2 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| MCH 10X Medical Terminology Elective (T) | | 3 | 0 | 3 |
| Semester 2 | | | | |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| MCH 138 | Patient Care Skills (T) | 1 | 3 | 2 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| XXX XXX Certificate Electives 2 (T) | | 4 | 2 | 5 |
| Semester 3 | | | | |
| EMS 100 | CPR and First Aid for the Health Care Professional (B) | 1 | 0 | 1 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| BIO 151 | Anatomy and Physiology 1 (G) | 3 | 2 | 4 |
| XXX XXX Certificate Electives 3 (T) | | 4 | 2 | 5 |
| MCH 108 | Professionalism in Healthcare (T) | 3 | 0 | 3 |
| Semester 4 | | | | |
| MCH 114 | Law and Ethics for Healthcare (T) | 2 | 0 | 2 |
| MCH 116 | Cultural Competency for Health and Public Safety Professions (T) | 3 | 0 | 3 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| XXX XXX Certificate Electives 4 (T) | | 4 | 2 | 5 |
| PSY XXX Psychology Elective (B) | | 3 | 0 | 3 |
| Total Credits: | | 55 | 17 | 63 |

Electives

Medical Terminology Elective

| MCH 101 | Medical Terminology 1 | 4 |
|---|--|---|
| & MCH 102 | and Medical Terminology 2 (T) | 2 |
| MCH 104 | Comprehensive Medical Terminology (T) perience Elective | 3 |
| FYE 100 | College Survival Skills | 1 |
| FYE 100 | • | - |
| FYE 103 | College Success Strategies | 2 |
| | Community College Experience | 3 |
| • . | Continue Composition 2: Contemporary logges | 2 |
| ENG 102 ENG 103 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| Psychology E | | |
| PSY 200 | Abnormal Psychology | 3 |
| PSY 210 | Adolescent Development | 3 |
| PSY 225 | Lifespan Development | 3 |
| Certificate Ele | ectives | |
| and must earn are not already degree. Other | complete at least two of the following certificates a minimum of 20 credits in certificate courses that a required for the Health Sciences Technology healthcare certificates (not listed below) may be prior permission of the Health Sciences Technology or the scienc | |
| Aquatic Group | p Fitness Instructor Certificate | |
| HFT 128 | Aquatic Group Fitness Instructor | 4 |
| Aquatic Perso | onal Trainer Certificate | |
| HFT 160 | Aquatic Personal Trainer | 2 |
| Coding Specia | alist Certificate | |
| BIO 240 | Pathophysiology | 3 |
| HIM 100 | Introduction to Health Information Management | 3 |
| HIM 115 | Clinical Abstracting of Health Data | 2 |
| HIM 130 | International Classification of Diseases (ICD) Coding | 4 |
| HIM 135 | Pharmacology for Health Information Management | 1 |
| HIM 210 | Healthcare Reimbursement Methodologies | 3 |
| HIM 215 | Advanced Medical Coding | 4 |
| HIM 225 | Current Procedural Terminology (CPT) Coding | 3 |
| Community H | ealth Worker Certificate | |
| CHW 100 | Community Health Worker Training | 4 |
| CHW 180 | Community Health Worker Practicum | 3 |
| MCH 106 | Health and Wellness Promotion | 2 |
| Electrocardio | graphy (Basic) Certificate | |
| MCH 141 | Electrocardiography 1 | 3 |
| Electrocardio | graphy (Advanced) - Arrhythmia Recognition | |
| MCH 142 | Electrocardiography 2 | 4 |
| | edical Technician Basic Certificate | |
| EMS 110 | Emergency Medical Technician Theory and Practice | 7 |
| Emergency M | edical Technician Paramedic Certificate | |
| EMS 110 | Emergency Medical Technician Theory and Practice | 7 |
| EMS 120 | Paramedic Anatomy and Physiology | 3 |

| EMS 211 | Paramedic 1 | 7 |
|------------------|--|----|
| EMS 212 | Paramedic 2 | 6 |
| EMS 213 | Paramedic 3 | 6 |
| EMS 221 | Paramedic 1 Lab | 1 |
| EMS 231 | Paramedic 1 Practicum | 2 |
| EMS 222 | Paramedic 2 Lab | 1 |
| EMS 232 | Paramedic 2 Practicum | 3 |
| EMS 223 | Paramedic 3 Lab | 1 |
| EMS 233 | Paramedic 3 Practicum | 3 |
| Group Fitness I | nstructor Certificate | |
| HFT 122 | Group Fitness Instructor | 4 |
| Health and Fitne | ess Special Populations Certificate | |
| HFT 130 | Foundations of Health and Wellness Programs | 3 |
| HFT 164 | Health and Fitness Across the Life Span 1 | 3 |
| HFT 168 | Health and Fitness Across the Life Span 2 | 3 |
| Health Unit Coo | rdinator Certificate | |
| MCH 110 | Orientation to Health Records | 3 |
| MCH 120 | Health Unit Coordinator Training | 4 |
| Medical Assista | nt Certificate | |
| BIO 117 | Human Body in Health and Disease | 3 |
| MA 100 | Clinical Procedures for Medical Assistants | 4 |
| MA 105 | Administrative Procedures for Medical Assistants | 4 |
| MA 110 | Medical Office Laboratory Procedures | 5 |
| MA 115 | Pharmacology for Medical Assistants | 3 |
| MA 120 | Medical Office Insurance Coding and Billing | 2 |
| MA 125 | Externship and Seminar for Medical Assistants | 4 |
| MCH 104 | Comprehensive Medical Terminology | 3 |
| PSY 225 | Lifespan Development | 3 |
| Nurse Aide Trai | ning Certificate | |
| MCH 130 | Nurse Aide Training | 4 |
| Patient Care As | sistant Certificate | |
| MCH 132 | Patient Care Assistant Training | 3 |
| Personal Fitnes | s Trainer Certificate | |
| HFT 151 | Personal Fitness Trainer 1 | 3 |
| HFT 152 | Personal Fitness Trainer 2 | 3 |
| HFT 156 | Establishing a Personal Training Business | 3 |
| HFT 182 | Personal Fitness Trainer Practicum | 2 |
| Pilates Mat Inst | ructor Certificate | |
| HFT 116 | Pilates Mat Instructor | 2 |
| HFT 180 | Pilates Mat Practicum | 2 |
| Practical Nursin | g Certificate | |
| PN 101 | Practical Nursing Concepts 1 | 8 |
| PN 102 | Practical Nursing Concepts 2 | 10 |
| PN 103 | Practical Nursing Concepts 3 | 6 |
| PN 185 | Practical Nursing Role Transition | 2 |
| Resistance Trai | • | |
| HFT 124 | Resistance Training Instructor | 4 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Community Health Worker Certificate (CHWC)

Community Health Worker Certificate (CHW)

Community Health Workers are trained advocates in communities where they are connected by culture, language, or residence. They empower individuals to gain access to health and community resources through education, outreach, home visits, mentoring, and referrals.

The Community Health Worker certificate prepares students to work in varied settings, including community-based health and social service agencies, and home visitation programs. Practicum experiences in the community are a major component of the certificate.

Graduates of the certificate program have diverse skills including interviewing, collecting data, obtaining vital signs, mentoring, providing client advocacy, providing referrals to community resources, care coordination, promoting basic health, and working with culturally diverse clients and community organizations.

Current CPR certification, up-to-date immunization verification, and a physical exam are required prior to practicum placement.

Upon successful completion of the program, graduates are qualified to apply to the Ohio Board of Nursing for a certificate to practice as a Certified Community Health Worker. A BCI (civilian) and FBI (federal) criminal records check is required by the Ohio Board of Nursing with the application for the certificate to practice.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Community Health Worker Certificate (CHW)

Program Prerequisite: Student must meet with the program coordinator prior to enrolling in the program.

| Semester 1 | | Lec | Lab Cr | edits |
|------------|-------------------------------------|-----|--------|-------|
| CHW 100 | Community Health Worker Training | 3 | 2 | 4 |
| MCH 106 | Health and Wellness Promotion | 2 | 0 | 2 |
| Semester 2 | | | | |

| MCH 116 | Cultural Competency for Health and Public Safety Professions | 3 | 0 | 3 |
|--------------|--|---|----|----|
| CHW 180 | Community Health Worker Practicum | 1 | 8 | 3 |
| Total Credit | S: | 9 | 10 | 12 |

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Electrocardiography (Advanced)Arrhythmia RecognitionCertificate (ECGAC)

Electrocardiography (Advanced) - Arrhythmia Recognition Certificate (ECGAC)

The Advanced Electrocardiography certificate expands the skills gained through the Basic ECG certificate with special emphasis on analyzing 12 lead ECG changes.

Students review basic ECG principles, and then learn to interpret various types of atrial and ventricular dysrhythmias, such as chamber enlargement, conduction defects, and perfusion disturbance patterns.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electrocardiography (Advanced) - Arrhythmia Recognition Certificate (ECGAC)

Program Prerequisite: MCH 141 Electrocardiography 1.

| Semester 1 | | Lec | Lab Credits | |
|--------------|-----------------------|-----|-------------|---|
| MCH 142 | Electrocardiography 2 | 3 | 2 | 4 |
| Total Credit | 'S' | 3 | 2 | 4 |

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Electrocardiography (Basic) Certificate (ECGBC)

Electrocardiography (Basic) Certificate (ECGBC)

Students who successfully complete the Basic Electrocardiography course will receive a certificate of completion.

Students learn the basic principles of electrocardiography, including understanding the electrical conductive system of the heart, interpreting basic ECG rhythm, preparing the patient and the equipment, and recognizing and correcting distortion problems.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Electrocardiography (Basic) Certificate (ECGBC)

Program Prerequisite: BIO 111 Biology: Unity of Life (minimum grade C)

| Semester 1 | | Lec | Lab Credits | |
|----------------|-----------------------|-----|-------------|---|
| MCH 141 | Electrocardiography 1 | 2 | 2 | 3 |
| Total Credits: | | 2 | 2 | 3 |

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Health Unit Coordinator Certificate (UCMR)

Health Unit Coordinator Certificate (UCMR)

The Health Unit Coordinator certificate helps students develop marketable skills as entry-level medical clerical workers. Job duties include assembling and maintaining patient charts; processing doctors' orders; processing admissions, transfers, and discharges; and scheduling diagnostic procedures.

The certificate program includes online coursework covering Health Unit Coordinator procedures and communication skills (about 85% of the program), as well as unpaid, on-site clinical observation at an area healthcare organization.

The Health Unit Coordinator program meets the standards of education published by the National Association of Health Unit Coordinators. Completion of the program qualifies students to take the national certification exam for Health Unit Coordinators.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Health Unit Coordinator Certificate (UMCR)

Program Prerequisites: AFM 095 Foundations of Basic Algebra or appropriate placement test score, IM 105 Keyboarding Skills or appropriate keyboarding score, and MCH 101 Medical Terminology 1 or MCH 104 Comprehensive Medical Terminology (minimum grade C for either).

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|----------------------------------|-----|--------|-------|
| MCH 102 | Medical Terminology 2 | 2 | 0 | 2 |
| MCH 110 | Orientation to Health Records | 3 | 0 | 3 |
| MCH 120 | Health Unit Coordinator Training | 3 | 2 | 4 |
| Total Credits | : | 8 | 2 | 9 |

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Medical Assistant Certificate (MAC)

Medical Assistant Certificate (MAC)

Medical assistants are multi-skilled professionals who perform administrative, clinical, and management functions in medical practice organizations.

The Medical Assistant certificate prepares students to work in physicians' offices providing patient care, performing administrative tasks, and managing the medical office. Job responsibilities may include:

- Administrative tasks such as scheduling appointments, handling correspondence, maintaining and filing patient records, billing, bookkeeping, and completing insurance forms
- Clinical tasks including taking and recording medical histories, preparing patients for examinations, assisting with examinations and office surgeries, measuring vital signs, performing therapeutic and diagnostic tests, and giving injections
- Management tasks related to patient care, office personnel, and physician time

Medical Assistant students complete supervised clinical practice to develop their medical assisting competencies. Students who complete the program successfully are eligible to take the examination to become a Certified Medical Assistant (CMA).

The Medical Assistant certificate is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Medical Assisting Education Review Board (MAERB). The Commission on Accreditation of Allied Health

Education Programs is located at 25400 US Highway 19 N., Suite 158 Clearwater, FL 33763. Phone 727-210-2350.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Medical Assistant Certificate (MAC)

All certificate seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Program Prerequisites: BIO 111 Biology: Unity of Life, PSY 110 Introduction to Psychology

| Semester 1 | | Lec | Lab C | redits |
|----------------|--|-----|-------|--------|
| MA 100 | Clinical Procedures for Medical Assistants | 3 | 3 | 4 |
| MA 105 | Administrative Procedures for Medical Assistants | 2 | 4 | 4 |
| MCH 100 | Healthcare Informatics | 2 | 0 | 2 |
| MCH 104 | Comprehensive Medical Terminology | 3 | 0 | 3 |
| BIO 117 | Human Body in Health and Disease | 3 | 0 | 3 |
| Semester 2 | | | | |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| MA 110 | Medical Office Laboratory Procedures | 3 | 4 | 5 |
| MA 115 | Pharmacology for Medical Assistants | 3 | 0 | 3 |
| MA 120 | Medical Office Insurance Coding and Billing | 2 | 0 | 2 |
| Semester 3 | | | | |
| MA 125 | Externship and Seminar for Medical Assistants | 2 | 12 | 4 |
| PSY 225 | Lifespan Development | 3 | 0 | 3 |
| Total Credits: | | 29 | 23 | 36 |

Faculty

Program Chair/Advisor

Patricia Christos, RMA patricia.christos@cincinnatistate.edu

Nurse Aide Training Certificate (NATC)

Nurse Aide Training Certificate (NATC)

The Nurse Aide Training Certificate program is approved by the Ohio Department of Health. The program provides the skills needed to care for residents in a long-term care facility. These skills include Activities of Daily Living (ADLs) and lifting safely without injury to self or residents.

Students practice these skills in lab (a simulated patient room) and then apply the skills during their clinical rotation in a long-term care facility, with guidance from RN instructors.

The Nurse Aide Training Certificate is offered at the Cincinnati State Clifton campus, the Middletown campus, and the Evendale campus (Workforce Development Center).

Upon successful completion of the certificate program, students are eligible to take the Nurse Aide Training and Competency Evaluation exam offered by the Ohio Department of Health to become a State Tested Nurse Aide (STNA).

Other requirements for admitted students include:

- · Valid two-step TB test results must be presented.
- A social security card with the student's correct name and a state picture ID with correct information must be presented on the first day of class and at the time of state testing.
- · Books are required on the first day of class.
- Students must meet a strict attendance policy, as required by the Ohio Department of Health.
- Students must wear hunter green scrubs as their required uniform during clinical experiences in a long-term care facility.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Nurse Aide Training Certificate (NATC)

 Program Prerequisites: Must be at least 16 years old. To be admitted to this program, students must submit an application including a 2-step TB test. The 2-step TB test must be completed no more than 12 months prior to the semester the student is enrolled in MCH 130. A 12th grade or higher reading level is recommended.

The application and instructions are available at www.cincinnatistate.edu/nurseaide.

| Semester 1 | | Lec | Lab Credits | | |
|--------------|-------------------------|-----|-------------|---|--|
| MCH 130 | Nurse Aide Training (T) | 3 | 2 | 4 | |
| Total Credit | S: | 3 | 2 | 4 | |

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Program Coordinator/Advisor

Lisa Youngstrom, RN, MS lisa.youngstrom@cincinnatistate.edu

Patient Care Assistant Certificate (PCAC)

Patient Care Assistant Certificate (PCAC)

The Patient Care Assistant is an unlicensed assistant (with Nurse Aide certification) who supports the professional nurse in providing basic patient care in an acute care setting such as a hospital's general medical unit or surgical unit.

The certificate program includes topics such as the role of the Patient Care Assistant, medical terminology, basic concepts of anatomy and physiology, basic concepts of nutrition and diet therapy, and care skills for hospitalized patients.

Prospective students must be at least 18 years old, and have State-Tested Nurse Aide certification, and a high school diploma or GED.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Patient Care Assistant Certificate (PCAC)

Program Prerequisites: AFL 085 Applications of College Reading and Writing and AFM 095 Foundations of Basic Algebra, or appropriate placement test scores, and MCH 130 Nurse Aide Training or currently in good standing on the Ohio State Nurse Aide registry.

MCH 132 Patient Care Assistant Training 3
Total Credits 3

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Restorative Aide Certificate (RESTC)

Restorative Aide Certificate (RESTC)

The Restorative Aide certificate provides the skills needed to assist patients in a health care facility with tasks of daily living. These skills include lifting, moving, and ambulation procedures; caring for individuals with musculoskeletal, neurological, and integumentary (skin) conditions; providing restorative approaches to meeting needs for nutrition, hydration, personal care, and other daily activities; and completing documentation of care.

This certificate program is appropriate for nursing assistants and licensed nurses who are new to restorative programs in long-term care facilities.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Restorative Aide Certificate (RESTC)

Program Prerequisites: AFL 085 Applications of College Reading and Writing and AFM 095 Foundations of Basic Algebra, or appropriate placement test scores, and MCH 130 Nurse Aide Training or currently in good standing on the Ohio State Nurse Aide registry.

| MCH 136 | Restorative Aide Training | 2 |
|---------------|---------------------------|---|
| Total Credits | | 2 |

Faculty

Advisor

Lisa Lucas, MA lisa.lucas@cincinnatistate.edu

Medical Laboratory Technology (MLT)

Medical Laboratory Technology (MLT)

A medical laboratory technician (MLT) uses laboratory skills, computers, technology, and knowledge of pathology to provide information needed by the physician to diagnose, treat, and prevent disease.

In clinical chemistry, for example, the MLT determines enzyme levels to diagnose a heart attack, glucose levels to monitor diabetes, and cholesterol levels to prevent heart disease. In hematology, the MLT studies blood cells to diagnose anemia and leukemia. In immunohematology, the MLT prepares blood for transfusions. In the microbiology department, the organism causing an infection is identified and antimicrobials for treatment are determined.

The placement rate for co-op assignments and for graduates of the Cincinnati State MLT program is nearly 100%, because of unmet demand for entry-level employees in regional clinical laboratories.

The Medical Laboratory Technology program is accredited by The National Accrediting Agency for Clinical Laboratory Sciences, 5600 North River Road, Suite 720, Rosemont, IL 60018-5119. Phone: 773-714-8880.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Medical Laboratory Technology (MLT)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---|-----|--------|-------|
| CHE 115 | General, Organic, and Biological Chemistry | 3 | 3 | 4 |
| MAT 151 | College Algebra | 3 | 2 | 4 |

| FYE 1XX First Year | | 1 | 0 | 1 |
|---|---|----|-----|----|
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| MLT 100 | Introduction to Medical Laboratory Analysis (B) | 2 | 6 | 4 |
| BIO 151 | Anatomy and Physiology 1 (B) | 3 | 2 | 4 |
| MLT 121 | Hematology and Hemostasis 1 (T) | 3 | 3 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| Semester 3 | | | | |
| MLT 140 | Clinical Chemistry (T) | 3 | 3 | 4 |
| MLT 170 | Instrumentation for Medical Laboratory Technicians (T) | 0 | 3 | 1 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| ENG 10X | | 3 | 0 | 3 |
| English Composition Elective (G) | | | | |
| MLT 122 | Hematology and Hemostasis 2 (T) | 2 | 3 | 3 |
| Semester 4 | | | | |
| MLT 187 | Clinical Chemistry and Urinalysis Applications (T) | 0 | 3 | 1 |
| MLT 294 | MLT Internship: Specimen Collection (T) | 0 | 4 | 1 |
| MLT 181 | Phlebotomy Techniques for MLT (T) | 0 | 3 | 1 |
| MLT 186 | Hematology and Hemostasis Applications (T) | 0 | 3 | 1 |
| MLT 295 | MLT Clinical Internship (T) | 0 | 20 | 1 |
| Semester 5 | | | | |
| MLT 262 | Clinical Microbiology Applications (T) | 0 | 1 | 1 |
| MLT 210 | Clinical Immunology and Serology (T) | 2 | 3 | 3 |
| MLT 191 | Part-Time Cooperative Education 1: Medical Laboratory Technology (T) | 1 | 20 | 1 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| MLT 261 | Clinical Microbiology (T) | 2 | 9 | 5 |
| Semester 6 | | | | |
| MLT 251 | Immunohematology (T) | 2 | 5 | 4 |
| MLT 252 | Immunohematology Applications (T) | 0 | 3 | 1 |
| MLT 270 | Medical Laboratory Seminar (T) | 0 | 3 | 1 |
| MLT 192 | Part-Time Cooperative Education 2: Medical Laboratory Technology (T) | 1 | 20 | 1 |
| Total Credits: | | 40 | 124 | 64 |
| | | | | |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |

English Composition Elective

| ENG 102 | English Composition 2: Contemporary Issues | 3 |
|---------|---|---|
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Medical Laboratory Technology (MLT)

- Collect and process biological specimens using correct technique and safety precautions.
- Recognize pre-analytical, analytical, and post-analytical factors that affect results and take appropriate action within predetermined limits.
- Analyze biological specimens following established procedures with reproducibility consistent with entry level expectations.
- Monitor quality control and take appropriate action within predetermined limits.
- Perform preventative and corrective maintenance of instruments under supervision or refer to appropriate source for repairs.
- Communicate with patients, co-workers, and supervisors and other members of the health care team in a respectful and professional manner.
- · Relate laboratory results to common disease processes.
- Apply basic scientific principles to new procedures and techniques.
- Value participation in continuing education to maintain professional competence.
- Recognize and report critical values to physician or nursing staff according to hospital policy.
- Prepare to earn a passing score on the ASCP certification exam.
- Prepare to work in an entry level position with above-average performance.

Faculty

Program Chair/Advisor

Kellee M. Fields, Ed.D., MLS (ASCP) kellee.fields@cincinnatistate.edu

Nursing Programs

Cincinnati State offers two paths to an associate's degree in Nursing, and a certificate program in Practical Nursing.

The Cincinnati State Bethesda School of Nursing program (NUR) prepares associate's degree graduate nurses who are eligible to take the national standardized nursing examination (NCLEX-RN) and upon passing, work as registered nurses. Graduates are members of the

health team prepared to provide nursing care to clients with common health problems in a variety of settings.

The Nursing LPN-to-RN Progression program (NURP) allows qualified students to shorten the time required to complete the Nursing associate's degree. Students in the Cincinnati State Bethesda School of Nursing who are Licensed Practical Nurses with an unencumbered license may complete the associate's degree Nursing program using this option. Interested students should meet with the Nursing Program Chair or a Nursing academic advisor.

The Cincinnati State Practical Nursing Certificate program (PNC) prepares students to take the national standardized NCLEX-PN exam for licensure as a Practical Nurse. Licensed practical nurses share in the responsibility for patient care in various areas of nursing.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

The Cincinnati State Bethesda School of Nursing (NUR)

The Cincinnati State Bethesda School of Nursing (NUR)

The Cincinnati State Bethesda School of Nursing prepares graduate nurses who are eligible to take the national standardized nursing examination (NCLEX-RN) and upon passing, work as registered nurses.

The program is approved by the Ohio Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing 3343 Peachtree Road NE Suite 850 Atlanta, Georgia 30326. Phone: (404) 975-5000.

Graduates are members of the health team prepared to provide nursing care to clients with common health problems in a variety of settings.

Program application and selective enrollment requirements include:

- Applicants must be graduates of an accredited high school or provide evidence of high school equivalency by GED scores that meet standard core requirements set by the Ohio Department of Education.
- Applicants must have earned grades of C or higher in high school or college biology, chemistry, and algebra courses, and these courses must have been completed within seven years of the application for the Nursing program.
- The applicant's college placement test scores must meet program requirements.
- Applicants must also be Ohio state-tested nurse aides or LPN's.
- Applicants must complete the steps of the Nursing selective enrollment process to qualify to enter Nursing clinical courses. (Admission to the College does not guarantee entry into the Nursing program.) A cumulative grade point average of 2.75 is required for entry into the clinical courses.

Additional information about program selective enrollment requirements is available from the Program Director or Program Coordinator.

Applicants are strongly encouraged to attend a Nursing program information session and meet with a program advisor prior applying for selective enrollment.

Other requirements include:

- Students must complete general education courses in the order listed in the curriculum, unless these courses were completed prior to the listed semester.
- Students must meet all requirements of the program, including earning a minimum grade of C or Pass in all curriculum courses, attaining satisfactory clinical evaluations, and maintaining the required grade point average.
- During the final semester of the curriculum, students must pass a nationally standardized comprehensive exam in order to pass the final theory course.
- Students must have current certification in CPR for health care providers prior to taking clinical nursing courses.
- Students must provide a recent physical exam with up-to-date immunizations, including Hepatitis B, prior to commencing course work. Students must obtain a two-step TB skin test to enter the program and must obtain an annual TB test to remain in the program.

Prospective students are advised that when applying for the state licensure examination, they must answer a series of questions related to criminal convictions, reasons for dismissal from work positions, and mental health status. A positive response to any of these questions can result in disqualification as a candidate for licensure. (Ohio Revised Code 4723.28.) The licensure application may be viewed on the Ohio Board of Nursing website at http://www.nursing.ohio.gov.

Students who wish to enter the program who have been convicted of felonies and/or misdemeanors must contact the Program Director to discuss their situation before applying for selective enrollment.

During the selective enrollment process, background checks will be completed, per Health and Public Safety Division policy. A positive background check may prevent a student from entering the program.

Students who are convicted of possession and/or distribution of controlled substances, or have positive drug screens for non-prescription controlled substances while enrolled in the program are automatically dismissed.

Students who wish to transfer nursing credit from another nursing program to Cincinnati State must contact the Program Coordinator for specific information, after being admitted to the College and the Nursing program. Students may transfer a maximum of 17 semester credits (or 26 quarter credits) of clinical courses. Restrictions may be placed on nursing credit transfer for students who failed a nursing course or courses in another program.

Because nursing is a dynamic profession, the program reserves the right to change the curriculum and admission requirements as necessary

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Nursing (NUR)

Students seeking admission to the Nursing program must complete specific selective enrollment requirements. Students should meet with their academic advisor to discuss eligibility and deadlines for selective enrollment.

| Semester 1 | | Lec | Lab C | redits |
|-----------------------|---------------------------------|-----|-------|--------|
| BIO 151 | Anatomy and Physiology 1 (B) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| MAT 105 | Quantitative Reasoning (G) | 2 | 2 | 3 |
| NUR 101 | Nursing Concepts 1 (B) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| ENG 10X | | 3 | 0 | 3 |
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| NUR 102 | Nursing Concepts 2 (T) | 3 | 9 | 6 |
| Semester 3 | | | | |
| NUR 103 | Nursing Concepts 3 (T) | 6 | 9 | 9 |
| BIO 220 | Microbiology (G) | 2 | 3 | 3 |
| Semester 4 | | | | |
| NUR 201 | Nursing Concepts 4 (T) | 7 | 12 | 11 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| Semester 5 | | | | |
| SOC 105 | Introduction to Sociology (B) | 3 | 0 | 3 |
| NUR 202 | Nursing Concepts 5 (T) | 6 | 9 | 9 |
| Total Credits: | | 48 | 48 | 65 |

Electives

FYE Elective

| FYE 100 | College Survival Skills | 1 |
|----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

The Cincinnati State Bethesda School of Nursing (NUR)

- Synthesize knowledge related to the physiologic, psychosocial, and spiritual well-being of patients.
- Create a healing environment for the physical, psychosocial, and spiritual well-being of all patients.
- Utilize critical thinking and clinical reasoning skills to facilitate sound decision-making.
- Analyze nursing decisions for congruency with evidence-based practices.
- Integrate leadership principles that facilitate interdisciplinary collaboration and teamwork.
- Critique own attitudes and behaviors of the graduate nurse that are consistent with the professional values of the discipline and conducive to improving the quality and safety of their health care system.
- Respect the rights of patients to make health care choices that are consistent with their values and cultural beliefs.
- Develop therapeutic relationships with patients and families that demonstrate caring and respect for their values, preferences, and health care needs.
- Design a plan of care based on best practices and clinical policies with consideration given to the patient and family preferences.
- Utilize health information technology to communicate, manage knowledge, prevent error, and support decision-making.

Faculty

Program Chair/Assistant Director

Professor Janice Lockett, RN, MSN janice.lockett@cincinnatistate.edu

Program Coordinator

To be determined

Nursing (LPN to RN Progression) (NURP)

Nursing (LPN to RN) (NURP)

Students in the Cincinnati State Bethesda School of Nursing who are Licensed Practical Nurses with an unencumbered license may complete the Associate's degree Nursing program using this option. Interested students should meet with the Nursing Program Chair or a Nursing academic advisor.

The Nursing LPN-to-RN Progression program allows qualified students to shorten the time required to complete the Nursing associate's degree. Students enter the Nursing course sequence at the third level, taking Bridge and Transition courses (NUR 105 and (NUR 106) instead of the course NUR 103. These courses verify basic nursing skills and also cover pediatric nursing skills, as well as related clinical experiences.

After successfully completing the first semester of Nursing coursework, the LPN-to-RN student applies for Advanced Standing credit in Nursing, which replaces required courses NUR 101, NUR 102, and

NUR 103. Students must pay a fee equivalent to one credit hour to apply for Advanced Standing credit.

After receiving Advanced Standing credit, the LPN-to-RN students join traditional Nursing students to complete required courses NUR 201 and NUR 202. These courses cover medical-surgical, obstetrical, mental health, and management content and clinical experiences. The LPN-to-RN students also complete the non-nursing requirements of the traditional Nursing program.

During the final semester of the curriculum, students must pass a nationally standardized comprehensive exam in order to pass the final theory course.

Because Nursing courses include labs and clinical experiences, courses meet three to four days or evenings per week. Therefore, it would be difficult for an LPN-to-RN student to maintain full-time employment concurrently with a full-time academic load.

An LPN may choose to pursue the traditional Nursing program (completing required Nursing courses over five semesters). This approach is recommended for individuals with little clinical experience, or individuals who need to complete non-nursing courses concurrently with required Nursing courses.

A limited number of students are admitted to the LPN-to-RN program each year, through a selective enrollment process. Two groups of students are admitted during each academic year.

Prospective students are encouraged to attend a Nursing LPN-to-RN Progression information session. Application materials and other information about the selective enrollment process are available from Nursing program advisors.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Nursing (LPN to RN Progression) (NURP)

| Semester 1 | | Lec | Lab Cr | edits |
|-----------------------|---|-----|--------|-------|
| NUR 150 | Nursing Advanced Standing - LPN to ADN (T) | 11 | 0 | 11 |
| BIO 151 | Anatomy and Physiology 1 (B) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| MAT 105 | Quantitative Reasoning (G) | 2 | 2 | 3 |
| Semester 2 | | | | |
| NUR 105 | Nursing LPN to ADN Transition (| 2 | 3 | 3 |
| | B) | | | |
| NUR 106 | Nursing LPN/ADN Bridge (T) | 2 | 6 | 4 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| BIO 220 | Microbiology (G) | 2 | 3 | 3 |

| ENG 10X | | 3 | 0 | 3 |
|----------------|---------------------------------|----|----|----|
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| Semester 3 | | | | |
| NUR 201 | Nursing Concepts 4 (T) | 7 | 12 | 11 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| Semester 4 | | | | |
| SOC 105 | Introduction to Sociology (G) | 3 | 0 | 3 |
| NUR 202 | Nursing Concepts 5 (T) | 6 | 9 | 9 |
| Total Credits: | | 51 | 39 | 65 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|-----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Faculty

Program Chair

Professor Janice Lockett, RN, MSN janice.lockett@cincinnatistate.edu

Advisors

To be determined

Practical Nursing Certificate (PNC)

Practical Nursing Certificate (PNC)

The Cincinnati State Practical Nursing Certificate program offers classes at the Clifton Campus and the Great Oaks' Scarlet Oaks Campus. The program is structured to be completed in three continuous semesters of day or evening classes.

The Practical Nursing Certificate program is approved by The Ohio Board of Nursing, 17 South High Street, Suite 400 Columbus, Ohio 43215-3413. Phone: (614) 466-3947.

Licensed practical nurses share in the responsibility for patient care within the established guidelines of the Ohio Nurse Practice Act. The Practical Nursing Certificate prepares students through concurrent

classroom education and clinical practice in the areas of basic nursing skills, maternal and infant care, adult and child health, gerontological nursing, mental health concepts, and community health.

Program graduates are eligible to take the national standardized NCLEX-PN exam for licensure as a Practical Nurse. Passing a nationally standardized comprehensive exam is part of the requirements for the final course in the certificate program.

Admission to the Practical Nursing Certificate program requires completion of Selective Admission requirements. Interested students should speak to an advisor and attend an information session.

Enrollment requirements include:

- Submit written proof of current registration as a State Tested Nurse Aide prior to applying for Selective Admission. Students may complete the Nurse Aide Certificate course (MCH 130) to prepare for the state test.
- Complete a criminal background check, CPR certification, and a statement of health form.
- Have a total grade point average (GPA) of 2.50 or higher, and a GPA of 2.00 or higher in math and science courses.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Practical Nursing Certificate (PNC)

Program Prerequisites: Students seeking admission to the Practical Nursing Certificate program must complete selective enrollment requirements. Students should meet with their academic advisor to discuss eligibility and deadlines for selective enrollment.

| Semester 1 | | Lec | Lab C | redits |
|--------------------|-----------------------------------|-----|-------|--------|
| PN 101 | Practical Nursing Concepts 1 | 5 | 9 | 8 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective | | 2 | 2 | 4 |
| BIO 1XX Biology | | 3 | 2 | 4 |
| Elective | | | | |
| Semester 2 | | | | |
| PN 102 | Practical Nursing Concepts 2 | 7 | 9 | 10 |
| PSY 110 | Introduction to Psychology | 3 | 0 | 3 |
| Semester 3 | | | | |
| PN 103 | Practical Nursing Concepts 3 | 4 | 6 | 6 |
| MCH 100 | Healthcare Informatics | 2 | 0 | 2 |
| PN 185 | Practical Nursing Role Transition | 2 | 8 | 2 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| Total Credits | : | 30 | 34 | 39 |

Electives

First Year Experience Elective

| EVE 400 | College Cuminal Chille | 4 |
|---------|-------------------------|---|
| FYE 100 | College Survival Skills | |

| FYE 105 | College Success Strategies | 2 |
|----------------------|--|---|
| FYE 110 | Community College Experience | 3 |
| Biology Electiv | e | |
| BIO 117 & BIO 127 | Human Body in Health and Disease and Human Body in Health and Disease Laboratory | 4 |
| BIO 151 & BIO 152 | Anatomy and Physiology 1 and Anatomy and Physiology 2 | 8 |

Faculty

Program Chair

Barbara Ratliff, RN, MSN barbara.ratliff@cincinnatistate.edu

Advisor

Joseph Sacco, MA joseph.sacco@cincinnatistate.edu

Occupational Therapy Assistant Technology (OTA)

Occupational Therapy Assistant Technology (OTA)

Occupational therapy is the art and science of directing the human response with a focus on using selected client-centered occupations to promote and maintain health, prevent disability, assess behavior, and treat or train patients with physical or psychological dysfunction.

The mission of Occupational Therapy Assistant Technology program is to prepare graduates as competent, entry-level generalists qualified to practice in the field of Occupational Therapy, to meet community workforce needs, to provide opportunities for experiential and cooperative education with exposure to non-traditional and emerging areas of practice, to educate the community, and to function within the standards of the College, the American Occupational Therapy Association, and the Accreditation Council for Occupational Therapy Education.

Graduates of the Occupational Therapy Assistant Technology program are technically qualified members of the health team who function under the supervision or consultation of a registered occupational therapist. Assistants accept clinical responsibilities in hospitals, nursing homes, schools, rehabilitation centers, or other organizations directed to maintain health and socialization.

Graduates demonstrate entry-level competency in analyzing activities and applying activities to client needs; using occupational therapy concepts and skills (such as daily living skills, group activities, evidence based interventions, and adaptive equipment); directing activity programs; managing department operations; collecting data; understanding the effect of one's behavior on the client and others; upholding the standards of the profession; identifying the need for continuing professional education and growth; and relating occupational therapy to the total health care system.

The OTA program at Cincinnati State provides unique learning opportunities for students through the Eileen Berke Occupational Therapy Center. This training laboratory is a home adjacent to the Clifton campus that has been modified with cabinetry, architectural

installations, equipment, and furnishings designed to make daily life easier for individuals with disabilities or for those who simply wish to "age in place" in their own homes.

The Occupational Therapy Assistant program is accredited by The Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), 4720 Montgomery Lane, Suite 200 Bethesda, MD 20814-3449. Phone: (301) 652-AOTA. Website: www.acoteonline.org (http:// www.acoteonline.org).

Graduates earn an Associate of Applied Science degree and are eligible to sit for the National Certification Examination for the Occupational Therapy Assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, graduates are Certified Occupational Therapy Assistants (COTA). Current pass rates are available in the program information on the College's website.

Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT examination. A felony conviction may affect a graduate's ability to take the NBCOT certification examination, and background checks are required in Ohio to attain state licensure.

All OTA students must complete Level II fieldwork within 20 months after completing academic coursework preparation.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Occupational Therapy Assistant Technology (OTA)

| Semester 1 | | Lec Lab Credits | | edits |
|--------------------------|---|-----------------|---|-------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year Experience | | | | |
| Elective (B) | | | | |
| OTA 100 | Introduction to Occupational Therapy Assisting (B) | 3 | 0 | 3 |
| OTA 105 | Theory of Occupational Therapy (B) | 3 | 0 | 3 |
| OTA 106 | Techniques of Occupational Therapy (T) | 0 | 4 | 2 |
| OTA 107 | Clinical Competency Foundations for Occupational Therapy Assistant (B) | 0 | 2 | 1 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| BIO 151 | Anatomy and Physiology 1 (G) | 2 | 3 | 4 |
| Semester 2 | | | | |
| OTA 120 | Concepts and Skills of | 2 | 0 | 2 |
| | Occupational Therapy: Pediatrics (T) | | | |
| OTA 121 | Therapeutic Media for | 0 | 4 | 2 |
| | Occupational Therapy: Pediatrics (T) | | | |

| First Year E | xperience Elective | | | |
|---|---|-----|----|----|
| Elective | S | | | |
| Total Credits | : | 41 | 90 | 62 |
| Total Caradita | Therapy Practice 2 (T) | 4.4 | 00 | |
| OTA 242 | Fundamentals of Occupational | 1 | 0 | 1 |
| OTA 295 | OTA Level II Fieldwork 2 (T) | 0 | 22 | 1 |
| Semester 6 | | | | |
| OTA 294 | OTA Level II Fieldwork 1 (T) | 0 | 22 | 1 |
| OTA 241 | Fundamentals of Occupational Therapy Practice 1 (T) | 1 | 0 | 1 |
| OTA 245 | Therapeutic Media Analysis for Occupational Therapy (T) | 0 | 3 | 1 |
| Semester 5 | , | | | |
| OTA 230 | Concepts and Skills of Occupational Therapy: Physical Disabilities (T) | 4 | 0 | 4 |
| OTA 233 | Kinesiology for Occupational Therapy (\mathbf{T}) | 2 | 2 | 3 |
| OTA 231 | Therapeutic Media for Occupational Therapy: Physical Disabilities (T) | 0 | 6 | 3 |
| OTA 280 | Occupational Therapy Assisting Level I Fieldwork 3 (T) | 1 | 4 | 2 |
| Semester 4 | | | | |
| English Composition Elective (G) | | | | |
| ENG 10X | | 3 | 0 | 3 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| OTA 185 | Occupational Therapy Assisting Level I Fieldwork 2 (T) | 1 | 5 | 2 |
| OTA 111 | Therapeutic Media for Occupational Therapy: Psychosocial (T) | 0 | 4 | 2 |
| OTA 110 | Concepts and Skills of Occupational Therapy: Psychosocial (T) | 2 | 0 | 2 |
| Semester 3 | | | | |
| SOC 105 | Introduction to Sociology (B) | 3 | 0 | 3 |
| MAT 105 | Quantitative Reasoning (G) | 2 | 2 | 3 |
| PSY 110 | Level I Fieldwork 1 (T) Introduction to Psychology (G) | 3 | 0 | 3 |
| OTA 180 | Occupational Therapy Assisting | 1 | 5 | 2 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio

Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Occupational Therapy Assistant Technology (OTA)

- Complete courses leading to an educational foundation in liberal arts and sciences, including a focus on issues related to diversity.
- Perform as a generalist with a broad exposure to the delivery models and systems used in settings where occupational therapy is currently practiced and where it is emerging as a service.
- Demonstrate entry level competence through a combination of academic and fieldwork education.
- Articulate and apply occupational therapy principles and intervention tools to achieve expected outcomes as related to occupation.
- Articulate and apply therapeutic use of occupations with individuals
 or groups for the purpose of participation in roles and situations in
 home, school, work place, community, and other settings.
- Apply occupational therapy interventions to address the physical, cognitive, psychosocial, sensory, and other aspects of performance in a variety of contexts and environments to support engagement in everyday life activities that affect health, wellbeing, and quality of life.
- Demonstrate commitment to lifelong learning and keep current with best practice.
- Uphold the ethical standards, values, and attitudes of the occupational therapy profession.
- Understand the distinct roles and responsibilities of the occupational therapist and occupational therapy assistant in the supervisory process.
- Be prepared to advocate as a professional for the occupational therapy services offered and for the recipients of those services.

Faculty

Program Chair

Professor Claudia Miller, OTD, OTR/L claudia.miller@cincinnatistate.edu

Fieldwork Coordinator

Cindy Kief, COTA/L cindy.kief@cincinnatistate.edu

Public Safety and Emergency Services

The Public Safety programs offer associate's degrees and certificates related to a variety of professional roles in public safety fields. These programs allow participants to learn new skills or update the knowledge and skills needed to perform effectively on the job.

The **Emergency Medical Services** program offers an associate's degree with two majors:

- Emergency Medical Technician Paramedic Management
 This associate's degree prepares students for supervisory and administrative roles within the field of Emergency Medical Services
- Emergency Medical Technician Paramedic Science This associate's degree prepares students for careers in Emergency Medical Services research or education, or employment in a hospital emergency department.
- · Two certificates are offered also:
 - Emergency Medical Technician Basic Certificate The certificate covers the skills needed to care for patients at the scene of an accident or illness and while transporting patients by ambulance to the hospital. Students who complete the certificate are eligible to take the National Registry of Emergency Medical Technicians cognitive and practical examinations.
 - Paramedic Certificate Students who have already earned an EMT certificate may continue their education by entering the Paramedic certificate program. After completing the certificate, students are eligible to take the National Registry exam.

The **Fire Service Technology** associate's degree program prepares students for entry-level jobs in fire service as a firefighter/emergency medical technician.

- The Fire Service Leadership associate's degree provides knowledge and skills to certified firefighters who are interested in furthering their careers. Firefighters must have at least five years of experience prior to beginning the second-year curriculum of this program.
- The Fire Service Certificate provides specific education, training, and skills needed to obtain employment at a fire department.

The **Public Safety Technology** associate's degree program prepares students to respond to the nation's need for highly trained security professionals.

- The Homeland Security Certificate provides knowledge and skills needed to effectively deal with safety and security challenges in the United States. This program was developed in response to the needs of the Transportation Security Administration (TSA).
- The Public Safety Telecommunicator Certificate program prepares students for employment as 911 operators and emergency medical dispatchers.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

Emergency Medical Technician - Basic Certificate (EMTC)

Emergency Medical Technician - Basic Certificate (EMTC)

The Emergency Medical Technician certificate covers the skills needed to provide the first level of pre-hospital care in the Emergency Medical Services system. An EMT is prepared to care for patients at the scene of an accident or illness and while transporting patients by ambulance to the hospital. The EMT has the skills needed to assess a patient's condition and manage medical and trauma emergencies.

The EMT certificate program is approved by the Ohio Department of Public Safety, Division of Emergency Medical Services. After successful completion of the certificate program, students are eligible to take the National Registry of Emergency Medical Technicians cognitive and practical examinations.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Emergency Medical Technician—Basic Certificate (EMTC)

Program Prerequisites: AFL 085 Applications of College Reading and Writing or appropriate placement test score.

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|---|-----|--------|-------|
| EMS 110 | Emergency Medical Technician Theory and Practice | 5 | 4 | 7 |
| Total Credits | : | 5 | 4 | 7 |

Faculty

Program Chair

T. Ryan Mayfield, MS, NREMT-P thomas.mayfield@cincinnatistate.edu

Emergency Medical Technician - Paramedic Management (EMTP-M)

Emergency Medical Technician - Paramedic Management (EMTP-M)

The emergency medical technician administers life-saving care to the sick and injured. The Paramedic program at Cincinnati State leads to an Associate of Applied Science degree, and includes training in basic and advanced life support.

Students are eligible to take the National Registry cognitive and practical examinations after completing the three Paramedic Theory and Practice courses.

Students who complete the Management major are prepared to assume supervisory and administrative roles within the field of Emergency Medical Services.

Students are eligible to earn advanced standing credit for industry credentials. Students who earn all possible advanced standing credit can complete the remainder of the degree program by taking online courses.

The program is accredited by The Ohio Department of Public Safety, Division of Emergency Medical Services, P.O. Box 182073, 1970 West Broad Street, Columbus, OH 43218-2073. Phone: (614) 466-9447.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

EMT Paramedic—Management Major (EMTP-M)

Program Prerequisites: AFM 092 Introductory Algebra, AFL 085 Applications of College Reading, or appropriate placement test score, and EMS 110 Emergency Medical Technician Theory and Practice or EMT-Basic Certification in the State of Ohio.

| Semester 1 | | Lec | Lab C | redits |
|-------------------------|--|-----|-------|--------|
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |
| MAT 115 | Pre-Statistics (G) | 2 | 2 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) Semester 2 | | | | |
| ENG 102 | English Composition 2: | 3 | 0 | 2 |
| ENG 102 | English Composition 2: Contemporary Issues (G) | 3 | U | 3 |
| MGT 105 | Human Resource Management (B) | 3 | 0 | 3 |
| PHI 110 | Ethics (G) | 3 | 0 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| Semester 3 | | | | |
| MGT 220 | Leadership (B) | 3 | 0 | 3 |
| XXX 1XX | | 3 | 0 | 3 |
| Technical | | | | |
| Elective (T) | | | | |
| XXX 1XX | | 3 | 0 | 3 |
| Paramedic | | | | |
| Anatomy / Physiology | | | | |
| Elective (B) | | | | |
| Semester 4 | | | | |
| EMS 211 | Paramedic 1 (T) | 7 | 0 | 7 |
| EMS 221 | Paramedic 1 Lab (T) | 0 | 3 | 1 |
| EMS 231 | Paramedic 1 Practicum (T) | 1 | 9 | 2 |
| Semester 5 | | | | |
| EMS 212 | Paramedic 2 (T) | 0 | 6 | 6 |
| EMS 222 | Paramedic 2 Lab (T) | 0 | 3 | 1 |
| EMS 232 | Paramedic 2 Practicum (T) | 1 | 11 | 3 |
| Semester 6 | | | | |
| EMS 213 | Paramedic 3 (T) | 6 | 0 | 6 |
| EMS 223 | Paramedic 3 Lab (T) | 0 | 3 | 1 |
| EMS 233 | Paramedic 3 Practicum (T) | 1 | 11 | 3 |
| Total Credits | : | 49 | 48 | 64 |
| | | | | |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |

Paramedic Anatomy / Physiology Elective

| Human Body in Health and Disease | 3 |
|---|--|
| Anatomy and Physiology 1 and Anatomy and Physiology 2 | 8 |
| Paramedic Anatomy and Physiology | 3 |
| ive | |
| Introduction to Emergency Management | 3 |
| Introduction to Labor and Employee Relations | 3 |
| Legal Aspects of the Emergency Services | 3 |
| | Anatomy and Physiology 1 and Anatomy and Physiology 2 Paramedic Anatomy and Physiology ive Introduction to Emergency Management Introduction to Labor and Employee Relations |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Emergency Medical Services (EMTP-M, EMTP-S)

- Perform an extensive patient assessment based on chief complaint and present history
- · Develop a differential diagnosis
- Develop a field diagnosis
- Formulate plan of a care
- Implement appropriate treatment
- Evaluate results of treatment and change as needed
- · Consult with 1st responders, EMS partners, and hospital personnel
- · Safely deliver patient to terminal institution

Faculty

Program Chair

T. Ryan Mayfield, MS, NREMT-P thomas.mayfield@cincinnatistate.edu

Emergency Medical Technician - Paramedic Science & Paramedic Certificate (EMTP-S & EMTPC)

Emergency Medical Technician - Paramedic Science (EMTP-S)

The emergency medical technician administers life-saving care to the sick and injured. The Paramedic program at Cincinnati State leads to an Associate of Applied Science degree, and includes training in basic and advanced life support.

Students are eligible to take the National Registry cognitive and practical examinations after completing the three Paramedic Theory and Practice courses.

Students who complete the Paramedic Science major are prepared for careers in Emergency Medical Services research or education, or employment in a hospital emergency department. Students who are

interested in eventual transition into another allied health career field should consider the Paramedic Science major.

The Paramedic curriculum has been approved by the Ohio Department of Public Safety, Division of Emergency Medical Services, P.O. Box 182073, 1970 West Broad Street, Columbus, OH 43218-2073. Phone: (614) 466-9447.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Emergency Medical Technician - Paramedic Certificate (EMTPC)

Students who have already earned the credential National Registry Emergency Medical Technician (NREMT) may continue their education in the Paramedic certificate program.

The curriculum is approved by the Ohio Department of Public Safety, Division of Emergency Medical Services. After completing the certificate, students are eligible to take the National Registry exam for Paramedics

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

EMT Paramedic—Science Major (EMTP-S)

Program Prerequisites: AFM 095 Foundations of Basic Algebra or appropriate placement test score, and EMS 110 Emergency Medical Technician Theory and Practice or EMT-Basic Certification in the State of Ohio.

| Semester 1 | | Lec | Lab Cr | edits |
|-----------------------|---------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| BIO 151 | Anatomy and Physiology 1 (G) | 3 | 2 | 4 |
| MAT 115 | Pre-Statistics (G) | 2 | 2 | 3 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| Semester 2 | | | | |
| ENG 102 | English Composition 2: | 3 | 0 | 3 |
| | Contemporary Issues (G) | | | |
| SOC 105 | Introduction to Sociology (B) | 3 | 0 | 3 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| BIO 220 | Microbiology (B) | 2 | 3 | 3 |
| Semester 3 | | | | |
| EMS 211 | Paramedic 1 (T) | 7 | 0 | 7 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| EMS 221 | Paramedic 1 Lab (T) | 0 | 3 | 1 |

| EMS 231 | Paramedic 1 Practicum (T) | 1 | 9 | 2 |
|---------------|---------------------------|----|----|----|
| Semester 4 | | | | |
| EMS 212 | Paramedic 2 (T) | 6 | 0 | 6 |
| BIO 240 | Pathophysiology (B) | 3 | 0 | 3 |
| EMS 222 | Paramedic 2 Lab (T) | 0 | 3 | 1 |
| EMS 232 | Paramedic 2 Practicum (T) | 1 | 11 | 3 |
| Semester 5 | | | | |
| EMS 213 | Paramedic 3 (T) | 6 | 0 | 6 |
| EMS 223 | Paramedic 3 Lab (T) | 0 | 3 | 1 |
| EMS 233 | Paramedic 3 Practicum (T) | 1 | 11 | 3 |
| Total Credits | S: | 51 | 49 | 63 |

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Emergency Medical Technician— Paramedic Certificate (EMTPC)

Program Prerequisites: EMT-Basic Certification from the State of Ohio, and AFL 085 Applications of College Reading and Writing and AFM 095 Foundations of Basic Algebra or appropriate placement test scores.

| Semester 1 | | Lec | Lab Cr | edits |
|---|---|-----|--------|-------|
| EMS 110 | Emergency Medical Technician Theory and Practice | 5 | 4 | 7 |
| Semester 2 | | | | |
| XXX 1XX Paramedic Anatomy / Physiology Elective | | 3 | 0 | 3 |
| Semester 3 | | | | |
| EMS 211 | Paramedic 1 | 7 | 0 | 7 |
| EMS 221 | Paramedic 1 Lab | 0 | 3 | 1 |
| EMS 231 | Paramedic 1 Practicum | 1 | 9 | 2 |
| Semester 4 | | | | |
| EMS 212 | Paramedic 2 | 6 | 0 | 6 |
| EMS 222 | Paramedic 2 Lab | 0 | 3 | 1 |
| EMS 232 | Paramedic 2 Practicum | 1 | 11 | 3 |
| Semester 5 | | | | |
| EMS 213 | Paramedic 3 | 6 | 0 | 6 |
| EMS 223 | Paramedic 3 Lab | 0 | 3 | 1 |

| EMS 233 | Paramedic 3 Practicum | 1 | 11 | 3 |
|----------------|-------------------------------|-------|----|----|
| Total Credits: | | 30 | 44 | 40 |
| Paramedic A | natomy / Physiology Elective | | | |
| | | | | |
| BIO 151 | Anatomy and Physiology 1 | | | 8 |
| & BIO 152 | and Anatomy and Physiology 2 | | | |
| EMS 120 | Paramedic Anatomy and Physic | ology | | 3 |
| BIO 117 | Human Body in Health and Dise | ease | | 3 |
| | | | | |

Emergency Medical Services (EMTP-M, EMTP-S)

- Perform an extensive patient assessment based on chief complaint and present history
- · Develop a differential diagnosis
- · Develop a field diagnosis
- · Formulate plan of a care
- · Implement appropriate treatment
- · Evaluate results of treatment and change as needed
- · Consult with 1st responders, EMS partners, and hospital personnel
- · Safely deliver patient to terminal institution

Faculty

Program Chair

T. Ryan Mayfield, MS, NREMT-P thomas.mayfield@cincinnatistate.edu

Fire Service Leadership (FSTL) Fire Service Leadership (FSTL)

The Fire Service Leadership program provides additional knowledge and expertise for certified firefighters who are interested in furthering their careers while earning an Associate of Applied Science degree.

The scope of fire service encompasses many challenging community needs. Fire service professionals must be prepared to respond to and meet these needs. Effective leaders in today's fire service incorporate changing technologies and skills into their fire department Standard Operating Guidelines. Effective leaders also must be experts in fire behavior and safety, display decisive internal and external communication, be familiar with laws that govern Fire/EMS, and embrace diversity within the department and community.

Firefighters must have at least five years of experience prior to beginning the second year curriculum of the Fire Service Leadership program.

Students are eligible to earn advanced standing credit for industry credentials. Students who earn all possible advanced standing credit can complete the remainder of the degree program by taking online courses.

Students must earn grades of C or better in all FST classes.

Applicants must present copies of previous certifications pertaining to fire fighting and emergency medical services.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Fire Service Leadership (FSTL)

Program Prerequisites: AFM 092 Introductory Algebra, AFL 085 Applications of College Reading and Writing, or appropriate placement test score, and a minimum of five years of experience as a firefighter prior to beginning the second year curriculum of this program.

| Semester 1 | | Lec | Lab C | redits |
|--|---|-----|-------|--------|
| FST 123 | Principles of Emergency Services (B) | 3 | 0 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| FST 120 | Fire Behavior and Combustion (T) | 2 | 0 | 2 |
| FST 129 | Fire Prevention (T) | 3 | 0 | 3 |
| PHI 110 | Ethics (T) | 3 | 0 | 3 |
| FST 1XX Fire Service Technology Elective (B) | | 7 | 12 | 11 |
| Semester 3 | Fine Books of the Constants (T) | 0 | 0 | 0 |
| FST 126 | Fire Protection Systems (T) | 2 | 0 | 2 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| MAT 1XX Mathematics Elective (G) Semester 4 | | 2 | 2 | 3 |
| XXX XXX Social Science Elective (G) | | 3 | 0 | 3 |
| FST 223 | Principles of Fire and Emergency Services Safety and Survival (T) | 2 | 0 | 2 |
| COMM 1XX Communicati Elective (B) Semester 5 | ons | 3 | 0 | 3 |
| FST 265 | Fire Service Instructor (T) | 2 | 3 | 3 |
| FST 161 | Fire Officer 1 (T) | 4 | 0 | 4 |
| MGT 101 | Principles of Management (G) | 3 | 0 | 3 |
| Semester 6 | | | | |
| FST 228 | Legal Aspects of the Emergency Services (T) | 3 | 0 | 3 |
| FST 226 | Building Construction for Fire Protection (T) | 3 | 0 | 3 |
| FST 162 | Fire Officer 2 (T) | 4 | 0 | 4 |
| Total Credits: | | 56 | 17 | 62 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|-----------------------|---|----|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Fire Service Tec | hnology Elective | |
| FST 131 & FST 132 | Firefighter Professional 1 and Firefighter Professional 2 | 11 |
| FST 145 | Career Firefighter 1 and 2 | 11 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Mathematics Ele | ective | |
| MAT 115 | Pre-Statistics | 3 |
| MAT 120 | Technical Mathematics | 3 |
| MAT 131 | Statistics 1 | 3 |
| Social Science I | Elective | |
| PSY 110 | Introduction to Psychology | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| Communication | s Elective | |
| COMM 105 | Interpersonal Communication | 3 |
| COMM 110 | Public Speaking | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Fire Safety (FST, FSTL)

- Perform and function as a Firefighter 2 certified by Ohio
 Department of Public Safety (ODPS) and nationally accredited
 by National Board on Fire Service Professional Qualifications
 (commonly known as The Pro-Boards)
- Perform and function as an Emergency Medical Technician (EMT) certified as an Ohio and National EMT
- Demonstrate the importance and value of functioning as a team member at emergency scenes
- Provide additional value to the community through non-emergency assistance involving life safety education, inspections, and support at community events
- Promote and practice safety at all fire department and community functions
- Display and promote a healthy lifestyle and environment

Faculty

Program Chair/Advisor

T. Ryan Mayfield, MS, NREMT-P

thomas.mayfield@cincinnatistate.edu

Advisor

Phil Vossmeyer, AAS FF2, F1 philip.vossmeyer@cincinnatistate.edu

Fire Service Technology & Fire Service Certificate (FST & FSTC)

Fire Service Technology (FST)

The Fire Service Technology program at Cincinnati State prepares students for entry-level jobs in fire service as a firefighter/emergency medical technician (EMT).

This program meets National Fire Protection Association standards and objectives for Firefighter 1 and Firefighter 2. Graduates of the program earn an Associate of Applied Science degree.

For hands-on fire training class eligibility, students must:

- Successfully perform and complete the Fire Cadet Fitness Evaluation.
- Complete the State Application for Admission to a Fire Training Course. This application screens for age, criminal convictions, and substance abuse that may disqualify students from state certification.
 Documentation must be provided to the Ohio Department of Public Safety for questionable cases.
- Have the Physical Exam Form (for firefighters) completed by a qualified physician.
- Present copies of previous certifications held pertaining to firefighting and emergency medical services.

Graduates who complete the associate's degree may continue their education at the University of Cincinnati to earn a bachelor's degree.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Fire Service Certificate (FSTC)

The Fire Service Certificate program provides specific education, training, and skills needed to obtain employment at a fire department. The Emergency Medical Technician course and the Firefighter 1 and Firefighter 2 courses that are part of the certificate prepare students for the State of Ohio's Certification exams.

Successful completion of the state exams is required before certification cards are issued by the State of Ohio.

The Fire Service certificate program offers a fast track to employment. All credits earned while completing this certificate also can be applied to the Fire Service Technology associate's degree.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Fire Service Technology (FST)

Program Prerequisite: AFM 092 Introductory Algebra, AFL 085 Applications of College Reading and Writing, or appropriate placement test score.

| Semester 1 | | Lec | Lab Cı | redits |
|-----------------------|--|-----|--------|--------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | O | ' |
| Experience | | | | |
| Elective (B) | | | | |
| FST 101 | Fire Cadet Fundamentals (B) | 1 | 2 | 2 |
| FST 105 | Firefighter Physical Preparedness | 1 | 2 | 2 |
| | (T) | | | |
| EMS 110 | Emergency Medical Technician | 5 | 4 | 7 |
| | Theory and Practice (T) | | | |
| FST 136 | Emergency Vehicle Operator (T) | 0 | 2 | 1 |
| Semester 2 | | | | |
| FST 131 | Firefighter Professional 1 (B) | 4 | 6 | 6 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FST 123 | Principles of Emergency Services | 3 | 0 | 3 |
| | (B) | | | |
| FST 120 | Fire Behavior and Combustion (T) | 2 | 0 | 2 |
| Semester 3 | | | | |
| FST 129 | Fire Prevention (T) | 3 | 0 | 3 |
| FST 132 | Firefighter Professional 2 (T) | 3 | 6 | 5 |
| 1XX | | 2 | 2 | 3 |
| Mathematics | | | | |
| Elective (G) | | | | |
| 10X English | | 3 | 0 | 3 |
| Composition | | | | |
| Elective (G) | | | | |
| Semester 4 | Fire Dueto etion Contains (T) | 0 | 0 | 0 |
| FST 126 | Fire Protection Systems (T) | 2 | 0 | 2 |
| FST 294 | Internship 1: Fire Service Technology (T) | 1 | 40 | 2 |
| FST 228 | Legal Aspects of the Emergency | 3 | 0 | 3 |
| | Services (T) | | | |
| XXX XXX | | 3 | 0 | 3 |
| Social | | | | |
| Science | | | | |
| Elective (G) | | 4 | 2 | 2 |
| XXX XXX EMS / FST | | 1 | 3 | 2 |
| Elective (T) | | | | |
| Semester 5 | | | | |
| FST 223 | Principles of Fire and Emergency | 2 | 0 | 2 |
| 101220 | Services Safety and Survival (T) | _ | Ü | _ |
| FST 226 | Building Construction for Fire | 3 | 0 | 3 |
| | Protection (T) | | | |
| COMM 1XX | | 3 | 0 | 3 |
| Communication | on | | | |
| Elective (B) | | | | |

| PHI 110 | Ethics (G) | 3 | 0 | 3 |
|------------|-------------|----|----|----|
| Total Cred | its: | 52 | 67 | 64 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Mathematics Ele | ective | |
| MAT 115 | Pre-Statistics | 3 |
| MAT 120 | Technical Mathematics | 3 |
| MAT 131 | Statistics 1 | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| Social Science I | Elective | |
| PSY 110 | Introduction to Psychology | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| EMS / FST Elect | ive | |
| EMS 120 | Paramedic Anatomy and Physiology | 3 |
| FST 258 | Rapid Assistance and Self-Rescue Operations | 2 |
| Communication | Elective | |
| COMM 105 | Interpersonal Communication | 3 |
| COMM 110 | Public Speaking | 3 |
| | | |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Fire Service Certificate (FSTC)

Program Prerequisites: <u>AFL 085</u> Applications of College Reading and Writing (minimum grade C) or appropriate placement test score.

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---|-----|--------|-------|
| FST 105 | Firefighter Physical Preparedness | 1 | 2 | 2 |
| FST 101 | Fire Cadet Fundamentals | 1 | 2 | 2 |
| FST 136 | Emergency Vehicle Operator | 0 | 2 | 1 |
| EMS 110 | Emergency Medical Technician Theory and Practice | 5 | 4 | 7 |
| Semester 2 | | | | |
| FST 131 | Firefighter Professional 1 | 4 | 6 | 6 |
| FST 123 | Principles of Emergency Services | 3 | 0 | 3 |
| FST 120 | Fire Behavior and Combustion | 2 | 0 | 2 |
| Semester 3 | | | | |
| FST 129 | Fire Prevention | 3 | 0 | 3 |

| FST 132 | Firefighter Professional 2 | 3 | 6 | 5 |
|---------------|----------------------------|----|----|----|
| Total Credits | • | 22 | 22 | 31 |

Fire Safety (FST, FSTL)

- Perform and function as a Firefighter 2 certified by Ohio
 Department of Public Safety (ODPS) and nationally accredited by National Board on Fire Service Professional Qualifications (commonly known as The Pro-Boards)
- Perform and function as an Emergency Medical Technician (EMT) certified as an Ohio and National EMT
- Demonstrate the importance and value of functioning as a team member at emergency scenes
- Provide additional value to the community through non-emergency assistance involving life safety education, inspections, and support at community events
- Promote and practice safety at all fire department and community functions
- Display and promote a healthy lifestyle and environment

Faculty

Program Chair/Advisor

T. Ryan Mayfield, MS, NREMT-P thomas.mayfield@cincinnatistate.edu

Advisor

Phil Vossmeyer, AAS FF 2, F1 philip.vossmeyer@cincinnatistate.edu

Public Safety Technology, Homeland Security & Telecommunicator Certificates (PST, HLSC, & PSTC)

Public Safety Technology (PST)

Note: The Public Safety Technology degree is not currently admitting students.

The Public Safety Technology program prepares students to respond to the nation's need for highly trained security professionals who understand the global threat to our infrastructure.

While earning an Associate of Applied Science degree, students learn to help secure borders, airports, waterways, and seaports; prepare for and respond to natural and man-made disasters; and provide counterterrorism and law enforcement intelligence support.

The program was developed in conjunction with local industry representatives to assure that local needs and requirements were addressed. Students who complete the program receive training and certification relevant to a public safety career and gain skills that may enhance upward mobility for career professionals.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

Homeland Security Certificate (HLSC)

The Homeland Security Certificate provides students with the knowledge and skills needed to effectively deal with safety and security challenges in the United States. This program was developed in response to the needs of the Transportation Security Administration (TSA).

Students gain understanding of fundamental elements of homeland security as well as specialized topics including detecting threats to security, and protecting critical infrastructure and transportation nodes.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Public Safety Telecommunicator Certificate (PSTC)

The Public Safety Telecommunicator Certificate program prepares students for employment as 911 operators and emergency medical dispatchers. These specialized public safety roles require far more than answering a telephone and dispatching a response unit to a designated location.

Students gain knowledge and skills related to communications technologies, public safety issues and concerns, and the telecommunicator's role in the U.S. Department of Homeland Security's NIMS Incident Command System.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Public Safety Technology (PST)

| Semester 1 | | Lec | Lab Cr | edits |
|---|--|-----|--------|-------|
| PST 100 | Introduction to Emergency Management (B) | 3 | 0 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| CRJ 105 | Introduction to Criminal Justice (B) | 3 | 0 | 3 |
| MAT 115 | Pre-Statistics | 2 | 2 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| PST 110 | Introduction to Homeland Security (T) | 3 | 0 | 3 |
| PHI 110 | Ethics (G) | 3 | 0 | 3 |
| PST 120 | Intelligence Analysis and Security Management (T) | 3 | 0 | 3 |
| EVT 105 | Environmental Sampling (T) | 2 | 3 | 3 |

| ENG 10X | | 3 | 0 | 3 |
|-----------------------------------|--|---|----|----|
| English | | | | |
| Composition | | | | |
| Elective (G) | | | | |
| Semester 3 | | | | |
| PST 115 | Introduction to Terrorist Groups (T) | 3 | 0 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| CRJ 125 | Criminology (B) | 3 | 0 | 3 |
| PST 205 | Transportation Security (T) | 3 | 0 | 3 |
| Semester 4 | | | | |
| CRJ 135 | Criminal Law (B) | 3 | 0 | 3 |
| EVT 187 | Materials Transportation Safety | 1 | 2 | 2 |
| | and Security (T) | | | |
| PST 125 | Public Safety Contingency | 3 | 0 | 3 |
| | Planning (T) | | | |
| PST 140 | Public Safety Telecommunicator | 6 | 0 | 3 |
| EVT 215 | Utilities Safety and Security (T) | 1 | 2 | 2 |
| Semester 5 | | | | |
| EVT 237 | Environmental Impact of Weapons | 1 | 2 | 2 |
| | of Mass Destruction (T) | | | |
| EVT 257 | Environmental Risk Assessment (| 1 | 2 | 2 |
| | T) | | | |
| PST 29X | | 1 | 40 | 2 |
| Public Safety | | | | |
| Technology | | | | |
| Experiential | | | | |
| Learning Elective (T) | | | | |
| | | | | |
| Total Credits: | | | | 62 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|-----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |
| PST Experientia | al Learning Elective | |
| PST 291 | Full-Time Cooperative Education 1: Public Safety Technology | 2 |
| PST 294 | Full Time Internship 1: Public Safety Technology | 2 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Homeland Security Certificate (HLSC)

Program Prerequisites: AFL 085 Applications of College Reading and Writing and AFM 095 Foundations of Basic Algebra or appropriate placement test scores.

| Semester 1 | | Lec | Lab Cı | edits |
|---------------|---|-----|--------|-------|
| PST 110 | Introduction to Homeland Security | 3 | 0 | 3 |
| PST 120 | Intelligence Analysis and Security Management | 3 | 0 | 3 |
| Semester 2 | | | | |
| PST 205 | Transportation Security | 3 | 0 | 3 |
| Total Credits | : | 9 | 0 | 9 |

Public Safety Telecommunicator Certificate (PSTC)

| Semester 1 | | Lec | Lab Cı | edits |
|---------------|--------------------------------|-----|--------|-------|
| PST 140 | Public Safety Telecommunicator | 3 | 0 | 3 |
| Semester 2 | | | | |
| PST 145 | Emergency Medical Dispatcher | 2 | 0 | 2 |
| Total Credits | : | 5 | 0 | 5 |

Faculty

Advisor

Mark Jackson, MBA mark.jackson@cincinnatistate.edu

Respiratory Care Technology (RC)

Respiratory Care Technology (RC)

Cincinnati State offers a comprehensive program in Respiratory Care Technology.

Students develop a wide range of clinical skills in traditional and nontraditional roles and gain proficiency in all areas of respiratory care, such as bedside pulmonary care, life-support systems management, diagnostic testing, pulmonary rehabilitation, and long-term care. Students practice these skills with a variety of health care professionals in the diagnosis, treatment, and education of the patient.

Program graduates earn an Associate of Applied Science degree and are eligible to take the National Board for Respiratory Care exam required to earn the Registered Respiratory Therapist (RRT) credential.

The Respiratory Care Technology program is accredited by The Commission on Accreditation for Respiratory Care (CoARC), 1248 Harwood Road, Bedford, Texas, 76021. Phone: (817) 282-2835. Website: www.coarc.com (http://www.coarc.com). Program #: 200260

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Respiratory Care Technology (RC)

Prior to applying for selective enrollment into the Respiratory Care program, applicants must meet these requirements: completed high school or college biology, chemistry and physics within the last 6 years with a C or better; 2.75 overall GPA for at least 12 credit hours earned from the most recent qualifying institution; and eligible to take MAT 131 and ENG 101.

| Semester 1 | | Lec | Lab C | redits |
|-------------------------------------|---|-----|-------|--------|
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience Elective (B) | | | | |
| BIO 151 | Anatomy and Physiology 1 (G) | 3 | 2 | 4 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| RT 100 | Introduction to Respiratory Care (| 1 | 0 | 1 |
| 100 | B) | | Ū | |
| RT 101 | Respiratory Care Science 1 (T) | 3 | 2 | 4 |
| RT 172 | Cardiopulmonary Anatomy and Physiology (B) | 3 | 2 | 4 |
| Semester 2 | | | | |
| RT 102 | Respiratory Care Science 2 (T) | 3 | 2 | 4 |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| BIO 220 | Microbiology (B) | 2 | 3 | 3 |
| RT 173 | Cardiopulmonary Disease (T) | 3 | 2 | 4 |
| RT 111 | Respiratory Care Clinical Practice 1 (T) | 1 | 8 | 2 |
| Semester 3 | | | | |
| RT 112 | Respiratory Care Clinical Practice 2 (T) | 1 | 16 | 2 |
| RT 103 | Mechanical Ventilation (T) | 3 | 2 | 4 |
| MAT 131 | Statistics 1 (G) | 2 | 2 | 3 |
| ENG 102 | English Composition 2: | 3 | 0 | 3 |
| | Contemporary Issues (G) | | | |
| Semester 4 | | | | |
| BIO 240 | Pathophysiology (B) | 3 | 0 | 3 |
| RT 211 | Respiratory Clinical Practice 3 (T) | 1 | 16 | 2 |
| RT 201 | Advanced Respiratory Critical Care (T) | 3 | 0 | 3 |
| RT 202 | Specialties in Respiratory Care (T) | 2 | 0 | 2 |
| Semester 5 | | | | |
| RT 203 | Respiratory Care Seminar (T) | 1 | 2 | 2 |
| RT 204 | Respiratory Care Capstone (T) | 0 | 2 | 1 |
| RT 212 | Respiratory Clinical Practice 4 (T) | 1 | 16 | 2 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| Total Credits | : | 49 | 79 | 64 |

Electives

| First Year Exp | perience Elective | 1 |
|----------------|-------------------------|---|
| FYE 100 | College Survival Skills | 1 |

FYE 105 College Success Strategies 2
FYE 110 Community College Experience 3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Respiratory Care Technology (RC)

- · Evaluate data in the patient record
- · Gather clinical information
- · Perform procedures to gather clinical information
- · Evaluate procedure results
- · Recommend diagnostic procedures
- · Assemble and troubleshoot equipment
- · Ensure infection control
- · Perform quality control procedures
- · Maintain a patent airway
- Perform airway clearance and lung expansion therapies
- · Support oxygenation and ventilation
- · Administer medications and specialty gases
- · Ensure modifications are made to the respiratory care plan
- Utilize evidence-based medicine principles
- · Perform respiratory care in high-risk situations
- Assist a physician in performing procedures
- Initiate and conduct patient/family education

Faculty

Program Chair and Director of Clinical Education

Professor Michael Chaney, MSEd, RRT michael.chaney2@cincinnatistate.edu

Medical Director

Dr. Christopher Schmitt, MD

Advisor

Professor Debra Lierl, M.Ed., RRT debra.lierl@cincinnatistate.edu

Other Full-time Faculty

Julie Klensch, BS, RRT

julie.klensch@cincinnatistate.edu

Director of Clinical Education

Jodi Kaminski, MS, RRT jodi.kaminski@cincinnatistate.edu

Surgical Technology and Surgical Technology First Assistant Certificate (ST & STFAC)

Surgical Technology (ST)

The Surgical Technology program focuses on the scrub role during general and specialty surgical procedures. The surgical technologist provides patient care before, during, and after surgery.

Responsibilities of the surgical technologist include preparing operative equipment and supplies, providing instrumentation during operative procedures, and other intra-operative patient care activities. Surgical technologists also share circulating tasks (responsibilities that may require patient interaction) with nurses.

Students develop skills through integrated theory and practice in the classroom and simulated laboratory practice, and through clinical experiences in hospital and/or ambulatory surgery operating rooms.

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA), 6 West Dry Creek Circle, Suite 110, Littleton, CO, 80120-8031. Websites: www.caahep.org (http://www.caahep.org) | www.arcstsa.org (http://www.arcstsa.org).

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Surgical Technology First Assistant Certificate (STFAC)

First assistants and surgical assistants provide aid to help surgeons conduct a safe operation with optimal results for the patient. In addition to intra-operative duties, surgical assistants perform pre-operative and post-operative duties to facilitate proper patient care.

The Surgical Technology First Assistant certificate encompasses the basic elements of first assisting. Most of the courses are delivered online. However, some courses include simulated laboratory experiences on campus.

To be admitted to the certificate program, students must have a minimum of an associate's degree from a regionally accredited college or university, with completion of basic college-level science courses within the past seven years. In addition, prospective students must be certified as a Surgical Technologist (CST); must have three years full-time scrub and/or assisting experience within the last seven years;

and must provide proof of current CPR Certification for Healthcare Providers, liability insurance, and updated immunizations.

For more information, please contact the Health and Public Safety Division at (513) 569-1670.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Surgical Technology (ST)

Program prerequisites: Students seeking admission to the Surgical Technology program must complete specific requirements. After completing Semester 1 of Year 1, students should apply for selective enrollment into the Surgical Technology program. Year 2 courses will begin in Fall Semester. Students should meet with their academic advisor to discuss eligibility and deadlines for selective enrollment.

First Year

| Semester 1 | | Lec | Lab Cr | edits |
|--------------|-------------------------------|-----|--------|-------|
| BIO 151 | Anatomy and Physiology 1 (B) | 3 | 2 | 4 |
| MAT 105 | Quantitative Reasoning (G) | 2 | 2 | 3 |
| ST 100 | Introduction to Surgical | 1 | 0 | 1 |
| | Technology (T) | | | |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |

After completing Year 1, Semester 1 courses, apply for Selective Enrollment into the ST program.

| Second Year | r | | | |
|-------------|---|---|---|---|
| Semester 1 | | | | |
| BIO 152 | Anatomy and Physiology 2 (B) | 3 | 2 | 4 |
| BIO 220 | Microbiology (G) | 2 | 3 | 3 |
| ST 101 | Surgical Foundations and Procedures 1 (T) | 6 | 0 | 6 |
| ST 111 | Surgical Principles and Practice 1 (B) | 1 | 3 | 2 |
| Semester 2 | | | | |
| PST 135 | Disaster Preparedness for Healthcare Workers (B) | 2 | 0 | 2 |
| ST 102 | Surgical Foundations and Procedures 2 (T) | 6 | 0 | 6 |
| ST 112 | Surgical Principles and Practice 2 (B) | 1 | 3 | 2 |
| ST 181 | Surgical Technology Clinical Skills Application 1 (T) | 1 | 3 | 2 |
| Semester 3 | | | | |
| COMM 105 | Interpersonal Communication (G) | 3 | 0 | 3 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| ST 201 | Advanced Surgical Procedures 1 (T) | 4 | 0 | 4 |
| ST 182 | Surgical Technology Clinical Skills Application 2 (T) | 0 | 6 | 2 |
| Thind Veen | | | | |

Third Year Semester 1

| ENG 105 | English Composition 2: Business Communication (G) | 3 | 0 | 3 |
|----------------|--|----|----|----|
| ST 202 | Advanced Surgical Procedures 2 (T) | 4 | 0 | 4 |
| ST 281 | Surgical Technology Clinical Directed Practice 1 (T) | 1 | 24 | 5 |
| Semester 2 | | | | |
| ST 282 | Surgical Technology Clinical Directed Practice 2 (T) | 1 | 24 | 5 |
| Total Credits: | : | 48 | 72 | 65 |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|---------|------------------------------|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |

The letters G. B. and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Surgical Technology First Assistant **Certificate (STFA)**

Program Prerequisites: Associate's degree from a regionally accredited college or university; certified as a Surgical Technologist, with three years full-time scrub and/or assisting experience within the last five years; CPR/BLS certified; and courses BIO 220 Microbiology, BIO 240 Pathophysiology, IM 100 Computer Literacy, and MCH 101 Medical Terminology 1.

| Semester 1 | | Lec | Lab C | Credits |
|---------------|---|-----|-------|---------|
| PST 135 | Disaster Preparedness for Healthcare Workers | 2 | 0 | 2 |
| STFA 150 | Perioperative Bioscience | 3 | 0 | 3 |
| STFA 155 | Principles of First Assisting | 2 | 3 | 3 |
| Semester 2 | | | | |
| STFA 161 | Surgical Specialties 1 | 7 | 0 | 7 |
| STFA 181 | First Assisting Clinical 1 | 1 | 12 | 2 |
| Semester 3 | | | | |
| STFA 162 | Surgical Specialties 2 | 7 | 0 | 7 |
| STFA 182 | First Assisting Clinical 2 | 1 | 12 | 2 |
| Total Credits | : | 23 | 27 | 26 |

Surgical Technology (ST)

- Demonstrate basic skills and knowledge essential for the various roles of a Surgical Technologist.
- · Demonstrate ethical, legal, and professional responsibilities associated with the care of the surgical patient.

- Establish and maintain a safe surgical environment by correctly applying principles of asepsis.
- · Perform the scrub role for basic surgical procedures.
- Prepare to advance into more complex specialty surgical procedures by reinforcement of scrub skills.
- Demonstrate professionalism, communication, and social skills consistent with their role as Surgical Technologists.
- Graduates will be prepared for employment as a Surgical Technologist.
- Graduates will demonstrate readiness to complete the National Certification Examination and obtain the Certified Surgical Technologist (CST) designation.

Faculty

Program Chair

LaVon Moore, BES, AAS, CST lavon.moore@cincinnatistate.edu

Humanities and Sciences Division

Division Office: Main Building Room 232, Clifton Campus

Division Phone Number: (513) 569-1700

The Humanities and Sciences Division offers two degrees for students who plan to continue in a bachelor's degree program immediately after graduating from Cincinnati State:

- Associate of Arts
- · Associate of Science

The Division also offers two Associate of Applied Science degrees that prepare students for immediate employment:

- Early Childhood Education
- · Interpreter Training

The Division also offers an Associate of Technical Studies degree for individuals currently working in law enforcement who want to advance in their field:

Law Enforcement

The Division also offers several certificate programs:

- Addiction Studies
- Addiction Studies Licensing Preparation
- · Deaf Studies
- Human Services
- Leadership

The **Humanities Division** recognizes that each student has a unique combination of attitudes, beliefs, values, and experiences. The Humanities Division's courses enable students to understand the forces that shape them, especially in the psychological, social, and economic areas, and provide tools that assist students either in controlling or adapting to these forces.

Foremost among these tools is effective communication, both oral and written. Therefore, the division offers a number of courses

that enhance communication skills by developing critical thinking techniques and the ability to present information in a clear, organized manner.

The **Sciences Division** is committed to the integration of language and critical thinking skills, mathematics, and the understanding of scientific principles to provide a comprehensive problem-solving approach to learning.

The Sciences Division emphasizes laboratory experiences, particularly in the laboratory-based chemistry and physics departments. Through observation and manipulation of laboratory materials, students gain genuine understanding of physical laws, concepts, and hypotheses and have opportunities to learn to use their own ingenuity while investigating and reporting on scientific issues and phenomena.

Sciences Division faculty are prepared for and dedicated to fulfilling the following divisional goals:

- Teaching the principles of physics, chemistry, and mathematics considered basic to successful studies in science-dependent fields such as engineering technologies, health technologies, science and health laboratory sciences, or technical business services.
- Teaching the principles of physics, chemistry, and mathematics considered essential to successful science studies within liberal arts programs.
- Providing in-depth instruction that prepares students for bachelor's degree studies in scientific or mathematical fields after obtaining an Associate of Science degree at Cincinnati State.

College Orientation

To set the stage for success in the college experience, degree-seeking students are required to complete a college First Year Experience (FYE) course within the first 12 credit hours taken at Cincinnati State.

Entrance Competencies in Communications and Mathematics

In order to ensure a high degree of success in academic studies in Humanities and Sciences, entering students must meet established academic levels in mathematics, written communication skills, and reading comprehension. To aid in determining these levels, entering students are required to take the college placement test. If testing and previous academic background indicate that a student has not reached the necessary preparatory level, an academic advisor will identify Academic Foundations classes to help the student reach needed levels. Preparatory classes are available year-round, and are designed to increase students' opportunities for success in their courses.

Cooperative Education

The Humanities and Sciences Division shares the College's commitment to cooperative education as an integral part of the curriculum. Cooperative education allows students to apply concepts learned in the classroom through practical, hands-on experience in full-time or part-time work environments. These work experiences may include paid cooperative education or unpaid internships. In some cases, degree-seeking students with prior work experience related to their post-baccalaureate career goals may be eligible to receive credit through the standard College procedures for granting advanced standing credit. The program chair and cooperative education coordinator must approve all substitutions in advance.

Students must schedule a meeting with the cooperative education coordinator at least one semester prior to the anticipated start of their co-op activities to discuss options and plan how to complete co-op credits.

For eligibility requirements, co-op registration policies, and other issues related to cooperative education, please refer to the Cooperative Education (p. 203) section of this catalog.

Writing Center

The Writing Center in Room 235 Main Building (Clifton Campus) offers instructional support at no charge to any Cincinnati State student whose coursework includes written assignments. Staff members are qualified, experienced writing instructors who provide guidance to students in all facets of the writing process. Writing Center assistance is available by appointment and on a walk-in basis.

Transfer Module

The Ohio Department of Higher Education developed the Ohio Transfer Module to facilitate transfer of credits from one Ohio public college or university to another. Ohio's transfer module contains 36 to 40 semester hours of course credits in the areas of communication, mathematics, arts and humanities, social and behavioral sciences, and natural and physical sciences. A transfer module completed at one college or university automatically meets the requirements for the transfer module at another college or university once the student is admitted. For additional information, see the State of Ohio Policy for Institutional Transfer (p. 174) and the Transfer Module (p. 161) sections of this catalog.

The Associate of Arts and Associate of Science degrees contains all of the required courses for the transfer module, and the Associate of Applied Science degrees contain many of the required courses. Students earning Associate of Applied Science degrees may schedule additional courses needed to complete the transfer module at their convenience. Students who transfer to an Ohio public university for a baccalaureate degree will find that an Associate of Arts or Associate of Science degree, or an Associate of Applied Science degree combined with transfer module completion, leads to preferential consideration at the receiving institution.

Addiction Studies Certificate (ADSC)

Addiction Studies Certificate (ADSC)

The Addiction Studies Certificate program prepares individuals to work in an entry-level position in a substance abuse program. Coursework includes training in how to assist individuals and families with a variety of issues arising from addiction problems.

Students who successfully complete the certificate are eligible to seek credentialing as an Ohio Chemical Dependency Counselor Assistant. Students who complete an associate's degree along with the certificate may seek credentialing as a Licensed Chemical Dependency Counselor II. Successful credentialing includes passing a computer-based exam administered by the Ohio Chemical Dependency Professionals Board.

Students seeking the Addiction Studies Certificate may also be interested in pursuing an Associate of Arts degree with a focus in Social Work, Criminal Justice, or Psychology.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Addiction Studies Certificate (ADSC)

| Semester 1 | | Lec | Lab C | redits |
|---|--|-----|-------|--------|
| ADC 100 | Drugs in Society | 3 | 0 | 3 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| PSY 110 | Introduction to Psychology | 3 | 0 | 3 |
| Semester 2 | | | | |
| ADC 105 | Addiction, Counseling, and Diversity | 3 | 0 | 3 |
| ADC 110 | Pharmacology of Addiction | 3 | 0 | 3 |
| XXX XXX | | 3 | 0 | 3 |
| Psychology or Social Work Elective | | | | |
| Semester 3 | | | | |
| ADC 115 | Ethics in Addiction Treatment | 3 | 0 | 3 |
| ADC 120 | Addiction Screening, Assessment, and Treatment | 3 | 0 | 3 |
| ADC 125 | Relapse, Treatment, and Prevention | 3 | 0 | 3 |
| Semester 4 | | | | |
| ADC 200 | Dual Diagnosis: Substance Abuse and Ment | 4 | 0 | 4 |
| ADC 205 | Addiction Studies Practicum | 1 | 7 | 2 |
| Total Credits | : | 32 | 7 | 33 |

PSY or SWK Electives

| PSY 200 | Abnormal Psychology | 3 |
|---------|-----------------------------|---|
| PSY 205 | Child Development | 3 |
| PSY 210 | Adolescent Development | 3 |
| PSY 215 | Adult Development | 3 |
| PSY 220 | Social Psychology | 3 |
| PSY 225 | Lifespan Development | 3 |
| SWK 110 | Introduction to Social Work | 3 |
| | | |

Faculty

Program Chair/Advisor

Marianne Niese, MSEd, LPCC-S marianne.niese@cincinnatistate.edu

Addiction Studies Licensing Preparation Certificate (ADSLC)

Addiction Studies Licensing Preparation Certificate (ADSLC)

The Addiction Studies Licensing Preparation Certificate is for individuals who have completed a college degree and want to qualify for employment as an addiction/substance abuse counselor.

After completing the certificate, students can apply for credentialing in Ohio as a Licensed Chemical Dependency Counselor II (associate's degree), a Licensed Chemical Dependency Counselor III (bachelor's degree), or a Licensed Independent Chemical Dependency Counselor (master's degree). Successful credentialing includes passing a computer-based exam administered by the Ohio Chemical Dependency Professionals Board.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Addiction Studies Licensing Preparation Certificate (ADSLC.CT)

Program Prerequisite: An associate's, bachelor's, or master's degree in a behavioral science field, from an accredited institution of higher education, is required to enroll in this program.

| Semester 1 | mester 1 | | | Lab Credits | |
|----------------|--|----|---|-------------|--|
| ADC 100 | Drugs in Society | 3 | 0 | 3 | |
| ADC 105 | Addiction, Counseling, and Diversity | 3 | 0 | 3 | |
| ADC 110 | Pharmacology of Addiction | 3 | 0 | 3 | |
| Semester 2 | | | | | |
| ADC 115 | Ethics in Addiction Treatment | 3 | 0 | 3 | |
| ADC 120 | Addiction Screening, Assessment, and Treatment | 3 | 0 | 3 | |
| Semester 3 | | | | | |
| ADC 125 | Relapse, Treatment, and Prevention | 3 | 0 | 3 | |
| ADC 200 | Dual Diagnosis: Substance Abuse and Ment | 4 | 0 | 4 | |
| Total Credits: | | 22 | 0 | 22 | |

Faculty Advisor

Marianne Niese, MSEd, LPCC-S marianne.niese@cincinnatistate.edu

Associate of Arts (AARTS) Associate of Arts (AARTS)

The Associate of Arts degree is designed for students who plan to transfer into a bachelor's degree program immediately after completing their Cincinnati State degree.

The Associate of Arts degree includes the Ohio Transfer Module, which is a core set of general education courses, along with directed electives that allow students to complete the first two years of a four-year degree in a liberal arts field. Working closely with an academic advisor, students customize the curriculum to fit the school and the bachelor's degree program they plan to complete.

Students in the Associate of Arts program participate in cooperative education, which offers opportunities for internship or employment in a career-related field. The co-op or internship placement provides practical training and enriches the academic experience.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Associate of Arts Degree Requirements

| First Year | | | | | |
|---|--|---|---|-------------|--|
| Semester 1 | emester 1 | | | Lab Credits | |
| FYE 1XX First Year Experience Elective | | 1 | 0 | 1 | |
| ENG 101 | English Composition 1 | 3 | 0 | 3 | |
| HUM 190 | Career Exploration Seminar: Associate of Arts / Associate of Science | 2 | 0 | 2 | |
| MAT 1XX Transfer Module Mathematics Elective | | 3 | 0 | 3 | |
| XXX XXX Transfer Module Arts/ Humanities List A Elective | | 3 | 0 | 3 | |
| XXX XXX Directed Elective 1 | | 3 | 0 | 3 | |
| Semester 2 ENG 10X English Composition Elective | | 3 | 0 | 3 | |

| XXX XXX | | 3 | 0 | 3 | Semester 5 | | |
|-----------------------|-----------------|---|----|---|----------------------|---|-------|
| Transfer | | | | | HUM XXX | 1 20 | 1 |
| Module | | | | | Co-op/ | | |
| Social/ Behavioral | | | | | Internship | | |
| List A | | | | | Elective 2 | | |
| Elective | | | | | XXX XXX | 3 0 | 3 |
| XXX XXX | | 3 | 0 | 3 | Transfer | | |
| Directed | | O | O | O | Module Elective 2 | | |
| Elective 2 | | | | | | 2 0 | 2 |
| XXX XXX | | 3 | 0 | 3 | XXX XXX Directed | 3 0 | 3 |
| Directed | | | | | Elective 6 | | |
| Elective 3 | | | | | XXX XXX | 3 0 | 3 |
| Semester 3 | | | | | Directed | Ç Ç | |
| COMM 110 | Public Speaking | 3 | 0 | 3 | Elective 7 | | |
| XXX XXX | | 2 | 2 | 3 | Total Credits: | 60 44 | 62 |
| Transfer | | | | | rotal Grounds | | 0_ |
| Module | | | | | Transfer Modul | e Electives must be chosen from the correspondin | g |
| Natural/ | | | | | Transfer Modul | e list. | |
| Physical | | | | | Directed electiv | es may be chosen from the Transfer Module cours | 20 |
| Sciences | | | | | | Directed Electives course list, to coincide with the | oC |
| Elective 1 | | | | | | f the desired transfer school and program. Courses | s not |
| XXX XXX | | 3 | 0 | 3 | • | be used toward the degree only with the permission | |
| Transfer Module | | | | | an advisor. Stu | dents should consult with an advisor before choosi | ng |
| Social/ | | | | | any directed ele | ectives. Additional credits earned in any area will b | е |
| Behavioral | | | | | applied to the d | irected electives to reach the total credits needed | for |
| Sciences List | | | | | graduation. | | |
| B Elective | | | | | Co-op/Internshi | p Electives <i>must</i> be chosen in consultation with a | Co- |
| XXX XXX | | 3 | 0 | 3 | · | Students should meet with their Co-op Coordinate | |
| Transfer | | | | | one semester p | rior to the planned Co-op/Internship semester to | |
| Module Arts/ | | | | | choose the app | ropriate route. | |
| Humanities | | | | | Tuenefen Med | ula Flactivos | |
| List B Elective | | | | | Transfer Modu | | |
| Elective | | | | | | osition Electives | |
| Second Year | • | | | | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| Semester 4 | | | | | ENG 103 | English Composition 2: Writing about Literature | |
| XXX XXX | | 2 | 2 | 2 | ENG 104 | English Composition 2: Technical | 3 |
| Transfer | | 2 | 2 | 3 | | Communication | |
| Module | | | | | ENG 105 | English Composition 2: Business Communication | on 3 |
| Natural/ | | | | | Transfer Modu | ule Mathematics Electives | |
| Physical | | | | | Recommended | l: | |
| Science | | | | | MAT 131 | Statistics 1 | 3 |
| Elective 2 | | | | | Other Options: | | |
| HUM XXX | | 1 | 20 | 1 | MAT 151 | College Algebra | 4 |
| Co-op/ | | | | | MAT 152 | Trigonometry | 4 |
| Internship | | | | | MAT 153 | Pre-Calculus Pre-Calculus | 6 |
| Elective 1 | | | | | MAT 215 | Business Calculus | 6 |
| XXX XXX | | 3 | 0 | 3 | MAT 251 | Calculus 1 | 5 |
| Transfer | | | | | MAT 252 | Calculus 2 | 5 |
| Module | | | | | MAT 253 | Calculus 3 | 5 |
| Elective 1 | | 0 | 0 | 2 | | | J |
| XXX XXX Directed | | 3 | 0 | 3 | | Ile Social/Behavioral Sciences List A Electives | 2 |
| Elective 4 | | | | | GEO 105 | World Regional Geography: the Americas, | 3 |
| XXX XXX | | 3 | 0 | 3 | CEO 440 | Europe, and Australia | 0 0 |
| Directed | | 3 | J | 3 | GEO 110 | World Regional Geography: Asia, Africa, and th Middle East | e 3 |
| Elective 5 | | | | | GEO 115 | | 3 |
| | | | | | GEO 115 | Cultural Geography | 3 |

| HST 101 | World History: First Civilizations to 1500 | 3 |
|-----------------|--|---|
| HST 102 | World History: 1500 to Present | 3 |
| HST 111 | American History: Early Settlers to 1877 | 3 |
| HST 112 | American History: 1877 to Present | 3 |
| HST 121 | African American History: Origins to 1877 | 3 |
| HST 122 | African American History: 1877 to Present | 3 |
| HST 130 | History of Africa | 3 |
| HST 161 | Western Civilization: Origins to 1648 | 3 |
| HST 162 | Western Civilization: 1648 to Present | 3 |
| LBR 105 | Introduction to Labor and Employee Relations | 3 |
| POL 101 | Introduction to American Government | 3 |
| POL 102 | Introduction to Comparative Governments and Politics | 3 |
| Transfer Module | e Social/Behavioral Sciences List B Electives | |
| ECO 105 | Principles of Microeconomics | 3 |
| ECO 110 | Principles of Macroeconomics | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| PSY 200 | Abnormal Psychology | 3 |
| PSY 205 | Child Development | 3 |
| PSY 210 | Adolescent Development | 3 |
| PSY 215 | Adult Development | 3 |
| PSY 220 | Social Psychology | 3 |
| PSY 225 | Lifespan Development | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| SOC 115 | Marriage and the Family | 3 |
| SOC 130 | Sociology of Aging | 3 |
| SOC 140 | Sociology of Gender | 3 |
| Transfer Module | Arts/Humanities List A Electives | |
| ART 110 | Introduction to Art | 3 |
| ART 111 | Art History: Ancient to Medieval Periods | 3 |
| ART 112 | Art History: Renaissance to the Present | 3 |
| COMM 130 | Introduction to Film Studies | 3 |
| MUS 101 | Music History: Middle Ages to Late 19th Century | 3 |
| MUS 102 | Music History: 20th Century | 3 |
| MUS 105 | Music History: African-American Music | 3 |
| MUS 110 | Jazz Appreciation | 3 |
| MUS 115 | Rock and Pop Music | 3 |
| MUS 120 | World Music | 3 |
| THE 105 | Theater Appreciation | 3 |
| THE 110 | History of Theater | 3 |
| Transfer Module | Arts/Humanities List B Electives | |
| LIT 200 | Introduction to Literature | 3 |
| LIT 210 | The Short Story | 3 |
| LIT 220 | Poetry | 3 |
| LIT 230 | Drama | 3 |
| LIT 240 | The Novel | 3 |
| LIT 251 | American Literature to 1865 | 3 |
| LIT 252 | American Literature since 1865 | 3 |
| LIT 255 | African American Literature | 3 |
| LIT 261 | British Literature: Medieval Period to 1800 | 3 |
| LIT 262 | British Literature: 1800 to Present | 3 |
| LIT 265 | Shakespeare | 3 |
| | | |

| LIT 270 | Children's Literature | 3 |
|----------------------|--|---|
| LIT 280 | Science Fiction | 3 |
| LIT 285 | Women Writers | 3 |
| PHI 105 | Introduction to Philosophy | 3 |
| PHI 110 | Ethics | 3 |
| | | 3 |
| REL 105 | World Religions | 3 |
| | e Natural/Physical Sciences Electives | |
| Recommended: | D. 1 | |
| BIO 111 | Biology: Unity of Life | 4 |
| BIO 112 | Biology: Diversity of Life | 4 |
| CHE 105 | Chemistry for Consumers | 3 |
| CHE 110 | Fundamentals of Chemistry | 4 |
| CHE 111 | Bio-Organic Chemistry | 4 |
| CHE 115 | General, Organic, and Biological Chemistry | 4 |
| EVS 110 | Environmental Science: Conservation and Cleanup | 4 |
| EVS 120 | Environmental Geology | 4 |
| EVS 130 | Environmental Science: Ecology and Ecosystems | 4 |
| PSC 105 | Astronomy | 4 |
| PSC 110 | Earth Science | 4 |
| PSC 115 | Energy | 3 |
| Other Options: | | |
| BIO 131 | Biology 1 | 5 |
| BIO 132 | Biology 2 | 5 |
| BIO 151 | Anatomy and Physiology 1 | 4 |
| BIO 152 | Anatomy and Physiology 2 | 4 |
| CHE 121 | General Chemistry 1 | 5 |
| & CHE 131 | and General Chemistry 1 Lab | |
| CHE 122 & CHE 132 | General Chemistry 2 and General Chemistry 2 Lab | 5 |
| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab | 5 |
| CHE 202 & CHE 212 | Organic Chemistry 2 and Organic Chemistry 2 Lab | 5 |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 152 | Physics 2: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| PHY 202 | Physics 2: Calculus-Based | 5 |
| Non Transfer M | odule Electives | |
| First Year Expe | rience Electives | |
| FYE 100 | College Survival Skills | 1 |
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Directed Electiv | , , , | |
| ADC 100 | Drugs in Society | 3 |
| ADC 105 | Addiction, Counseling, and Diversity | 3 |
| ADC 110 | Pharmacology of Addiction | 3 |
| ADC 110 | Ethics in Addiction Treatment | 3 |
| ADC 115 ADC 120 | Addiction Screening, Assessment, and | 3 |
| | Treatment | |
| ADC 125 | Relapse, Treatment, and Prevention | 3 |
| ADC 205 | Addiction Studies Practicum | 2 |

| ART 120 | Design History | 3 | LDR 290 | Leadership Capstone | 2 |
|----------|---|---|----------------|--|-----|
| ART 130 | Photography | 3 | MAT 105 | Quantitative Reasoning | 3 |
| ART 141 | Drawing 1 | 3 | MAT 115 | Pre-Statistics | 3 |
| ART 142 | Drawing 2 | 3 | MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
| ART 143 | Drawing 3 | 3 | MAT 132 | Statistics 2 | 3 |
| ART 150 | Watercolor | 3 | MUS 100 | Musical Concepts | 3 |
| ART 161 | Sculpture 1 | 3 | MUS 131 | Vocal Ensemble for Mixed Voices 1 | 1 |
| ART 162 | Sculpture 2 | 3 | MUS 132 | Vocal Ensemble for Mixed Voices 2 | 1 |
| BIO 210 | Cross Sectional Anatomy | 2 | MUS 133 | Vocal Ensemble for Mixed Voices 3 | 1 |
| BIO 220 | Microbiology | 3 | MUS 134 | Vocal Ensemble for Mixed Voices 4 | 1 |
| BIO 230 | Pharmacology | 3 | PHY 150 | Introduction to Physics | 3 |
| BIO 240 | Pathophysiology | 3 | PSY 100 | Applied Psychology: Human Relations | 3 |
| BIO 250 | Cell Biology | 5 | PSY 102 | Applied Psychology: Stress Management | 3 |
| BIO 260 | Genetics | 5 | PSY 105 | Psychology of Leadership | 4 |
| BIO 270 | Ecology | 5 | PSY 198 | First Year Special Topics in Psychology | 1-9 |
| BIO 275 | Animal Behavior | 5 | REL 110 | The Old Testament | 3 |
| COMM 105 | Interpersonal Communication | 3 | REL 115 | The New Testament | 3 |
| COMM 115 | Introduction to Journalism | 3 | SOC 200 | Race, Ethnicity, and Minorities | 3 |
| COMM 120 | Mass Media and Society | 3 | SPN 100 | Spanish for the Professions | 2 |
| COMM 205 | Small Group Communication | 3 | SPN 101 | Elementary Spanish 1 | 4 |
| COMM 215 | Journalism Practicum | 2 | SPN 102 | Elementary Spanish 2 | 4 |
| CRJ 102 | Juvenile Delinquency | 3 | SPN 201 | Intermediate Spanish 1 | 4 |
| CRJ 105 | Introduction to Criminal Justice | 3 | SPN 202 | Intermediate Spanish 2 | 4 |
| CRJ 110 | Introduction to Policing | 3 | SPN 221 | Spanish 1 for Business and Finance | 4 |
| CRJ 115 | Introduction to Corrections | 3 | SPN 222 | Spanish 2 for Business and Finance | 4 |
| CRJ 120 | Introduction to Courts | 3 | SPN 200 | Spanish Conversation and Composition | 3 |
| CRJ 125 | Criminology | 3 | SPT 100 | Introduction to Sport Management | 3 |
| CRJ 130 | Criminal Investigation Skills | 3 | SPT 105 | Sport in Society | 3 |
| CRJ 135 | Criminal Law | 3 | SPT 110 | Principles of Coaching | 3 |
| CULT 110 | Social Issues in Technology | 3 | SPT 115 | Ethics in Sport | 3 |
| CULT 105 | Issues in Human Diversity | 3 | SPT 120 | Sport Marketing | 3 |
| EDU 105 | Introduction to Education | 3 | SWK 110 | Introduction to Social Work | 3 |
| EDU 110 | Educational Technology | 3 | SWK 200 | Social Welfare Policy | 3 |
| EDU 200 | Individuals with Exceptionalities | 3 | SWK 205 | Case Management for Human Services | 3 |
| EDU 210 | Learning in Childhood | 3 | | Professionals | |
| ENG 100 | English Principles: Grammar and Structure | 2 | THE 115 | Acting | 3 |
| ENG 131 | Creative Writing: Poetry | 3 | THE 140 | Oral Interpretation of Literature | 3 |
| ENG 132 | Creative Writing: Fiction | 3 | THE 240 | Performance Practicum | 2 |
| ENG 134 | Creative Writing: Writing for Children | 3 | Co-Op/Internsh | nip Electives | |
| FRN 101 | Elementary French 1 | 4 | HUM 191 | Part-Time Cooperative Education 1: Associate of | 1 |
| FRN 102 | Elementary French 2 | 4 | | Arts and Sciences | |
| FRN 201 | Intermediate French 1 | 4 | HUM 192 | Part-Time Cooperative Education 2: Associate of | 1 |
| FRN 202 | Intermediate French 2 | 4 | HUM 194 | Arts and Sciences | 1 |
| ITP 101 | Beginning American Sign Language 1 | 3 | HOW 194 | Part-Time Career Education Project 1: Associate of Arts and Sciences | ' |
| ITP 102 | Beginning American Sign Language 2 | 3 | HUM 195 | Part-Time Career Education Project 2: Associate | 1 |
| ITP 201 | Intermediate American Sign Language 1 | 3 | | of Arts and Sciences | · |
| ITP 202 | Intermediate American Sign Language 2 | 3 | HUM 291 | Full-Time Cooperative Education 1: Associate of | 2 |
| ITP 251 | Advanced American Sign Language 1 | 3 | | Arts and Sciences | |
| ITP 252 | Advanced American Sign Language 2 | 3 | HUM 292 | Full-Time Cooperative Education 2: Assoc | 2 |
| LDR 200 | Transformational Leadership in Practice | 3 | HUM 294 | Internship: Associate of Arts and Sciences | 2 |
| LDR 230 | Ethical Leadership | 2 | HUM 296 | Full-Time Career Education Project: Associate of | 2 |
| LDR 240 | Applied Leadership Theory | 3 | | Arts and Sciences | |
| | | | | | |

Associate of Arts (AARTS)

- · Communicate effectively
- · Evaluate arguments in a logical fashion
- Employ the methods of inquiry characteristic of natural sciences, social sciences, and the arts and humanities
- Acquire an understanding of our global and diverse culture and society
- · Engage in our democratic society
- Understand and experience a professional setting aligned with the specific major of study for transfer
- Understand fundamental principles related to the specific major of study for transfer

Faculty

Program Chair

Jen Martin, MA jennifer.martin@cincinnatistate.edu

Co-Op Coordinator

Jayne Martin Dressing, MA jayne.dressing@cincinnatistate.edu

Advisors

Renee Rodriguez-Merino, MAEd renee.rodriguez@cincinnatistate.edu

Jessica Fager, MS jessica.fager@cincinnatistate.edu

Susan Kowalski, MS susan.kowalski@cincinnatistate.edu

Associate of Science (ASCI)

Associate of Science (ASCI)

The Associate of Science degree is designed for students who plan to transfer into a bachelor's degree program immediately after completing their Cincinnati State degree.

The Associate of Science degree includes the Ohio Transfer Module, which is a core set of general education courses, along with directed electives that allow students to complete the first two years of a four-year degree in a natural sciences or physical sciences field. Working closely with an academic advisor, students customize the curriculum to fit the school and the bachelor's degree program they plan to complete.

Students in the Associate of Science program participate in cooperative education, which offers opportunities for internship or employment in a career-related field. The co-op or internship placement provides practical training and enriches the academic experience.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Associate of Science Degree Requirements

| First Year | | | | |
|---|--|-----|---------|---|
| Semester 1 | | Lec | Lab Cre | |
| FYE 1XX First Year Experience Elective | | 1 | 0 | 1 |
| HUM 190 | Career Exploration Seminar: Associate of Arts / Associate of Science | 2 | 0 | 2 |
| MAT XXX Transfer Module Mathematics Elective | | 3 | 0 | 3 |
| XXX XXX Transfer Module Natural/ Physical Science List A Elective 1 | | 3 | 3 | 4 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| Semester 2 ENG 10X English | | 3 | 0 | 3 |
| Composition Elective XXX XXX Transfer | | 3 | 3 | 4 |
| Module Natural/ Physical Science List A Elective 2 | | | | |
| XXX XXX Transfer Module Arts/ Humanities List A Elective | | 3 | 0 | 3 |
| XXX XXX Directed Elective 1 | | 3 | 0 | 3 |
| Semester 3 | | | | |
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| XXX XXX Transfer Module Social/ Behavioral Science List A Elective | | 3 | 0 | 3 |
| XXX XXX Directed Elective 2 | | 3 | 0 | 3 |

| XXX XXX Directed Elective 3 | 3 | 0 | 3 | listed here ma an advisor. St | of the desired transfer school and program. Courses of the used toward the degree only with the permission and the should consult with an advisor before choosing the consult with the consult win | n of g |
|--|--------------------|----------|-----|----------------------------------|--|-----------|
| Second Year | | | | • | electives. Additional credits earned in any area will be directed electives to reach the total credits needed fo | |
| Semester 4 | | | | graduation. | | |
| XXX XXX Transfer Module | 3 | 0 | 3 | op Coordinato | hip Electives <i>must</i> be chosen in consultation with a Cor. Students should meet with their Co-op Coordinator prior to the planned Co-op/Internship semester to | |
| Mathematics OR Science | | | | choose the ap | propriate route. | |
| Elective 1 | | | | Transfer Mod | dule Electives | |
| HUM XXX | 1 | 20 | 1 | English Com | position Elective | |
| Co-op/ | | | | ENG 102 | English Composition 2: Contemporary Issues | 3 |
| Internship | | | | ENG 103 | English Composition 2: Writing about Literature | 3 |
| Elective 1 XXX XXX | 3 | 0 | 3 | ENG 104 | English Composition 2: Technical Communication | 3 |
| Transfer | | | | ENG 105 | English Composition 2: Business Communication | 1 3 |
| Module Arts/ | | | | Transfer Mod | dule Mathematics Elective | |
| Humanities List B | | | | MAT 151 | College Algebra | 4 |
| Elective | | | | MAT 152 | Trigonometry | 4 |
| XXX XXX | 3 | 0 | 3 | MAT 153 | Pre-Calculus | 6 |
| Directed | · · | Ü | Ü | MAT 251 | Calculus 1 | 5 |
| Elective 4 | | | | MAT 252 | Calculus 1 | 5 |
| XXX XXX | 3 | 0 | 3 | | | |
| Directed | | | | MAT 253 | Calculus 3 | 5 |
| Elective 5 | | | | MAT 131 | Statistics 1 | 3 |
| Semester 5 | | | | MAT 215 | Business Calculus | 6 |
| HUM XXX | 1 | 20 | 1 | | dule Social/Behavioral Sciences List A Elective | |
| Co-op/ Internship | | | | GEO 105 | World Regional Geography: the Americas, Europe, and Australia | 3 |
| Elective 2 XXX XXX | 3 | 0 | 3 | GEO 110 | World Regional Geography: Asia, Africa, and the Middle East | 3 |
| Transfer | | | | GEO 115 | Cultural Geography | 3 |
| Module | | | | HST 101 | World History: First Civilizations to 1500 | 3 |
| Social/ | | | | HST 102 | World History: 1500 to Present | 3 |
| Behavioral | | | | HST 111 | American History: Early Settlers to 1877 | 3 |
| Science List B Elective | | | | HST 112 | American History: 1877 to Present | 3 |
| XXX XXX | 3 | 0 | 3 | HST 121 | African American History: Origins to 1877 | 3 |
| Transfer | Ü | O | O | HST 122 | African American History: 1877 to Present | 3 |
| Module | | | | HST 130 | History of Africa | 3 |
| Mathematics | | | | HST 161 | Western Civilization: Origins to 1648 | 3 |
| OR Science | | | | HST 162 | Western Civilization: 1648 to Present | 3 |
| Elective 2 | | | | LBR 105 | Introduction to Labor and Employee Relations | 3 |
| XXX XXX | 3 | 0 | 3 | POL 101 | Introduction to American Government | 3 |
| Directed Floating 6 | | | | POL 102 | Introduction to Comparative Governments and | 3 |
| Elective 6 | 2 | 0 | 2 | . 02 102 | Politics | Ů |
| XXX XXX Directed | 3 | 0 | 3 | Transfer Mod | dule Social/Behavioral Sciences List B Elective | |
| Elective 7 | | | | ECO 105 | Principles of Microeconomics | 3 |
| Total Credits: | 62 | 46 | 64 | ECO 110 | Principles of Macroeconomics | 3 |
| . otar oroano. | 02 | -+0 | O-T | PSY 110 | Introduction to Psychology | 3 |
| Transfer Module Electives must be selected | ed from the corres | spondin | g | PSY 200 | Abnormal Psychology | 3 |
| Tuese of an Marshilla Bat | | | | . 0 . 200 | | U |
| Transfer Module list. | | | | PSY 205 | Child Development | 3 |
| Directed electives may be chosen from the | Transfer Module | 2 COLIFC | ۵ | PSY 205 PSY 210 | Child Development Adolescent Development | 3 |

| PSY 220 | Social Psychology | 3 |
|----------------------|--|---|
| PSY 225 | Lifespan Development | 3 |
| SOC 105 | Introduction to Sociology | 3 |
| SOC 115 | Marriage and the Family | 3 |
| SOC 130 | Sociology of Aging | 3 |
| SOC 140 | Sociology of Gender | 3 |
| Transfer Module | e Arts/Humanities List A Elective | |
| ART 110 | Introduction to Art | 3 |
| ART 111 | Art History: Ancient to Medieval Periods | 3 |
| ART 112 | Art History: Renaissance to the Present | 3 |
| COMM 130 | Introduction to Film Studies | 3 |
| MUS 101 | Music History: Middle Ages to Late 19th Century | 3 |
| MUS 102 | Music History: 20th Century | 3 |
| MUS 105 | Music History: African-American Music | 3 |
| MUS 110 | Jazz Appreciation | 3 |
| MUS 115 | Rock and Pop Music | 3 |
| MUS 120 | World Music | 3 |
| THE 105 | Theater Appreciation | 3 |
| THE 110 | History of Theater | 3 |
| Transfer Module | e Arts/Humanities List B Elective | |
| LIT 200 | Introduction to Literature | 3 |
| LIT 210 | The Short Story | 3 |
| LIT 220 | Poetry | 3 |
| LIT 230 | Drama | 3 |
| LIT 240 | The Novel | 3 |
| LIT 251 | American Literature to 1865 | 3 |
| LIT 252 | American Literature since 1865 | 3 |
| LIT 255 | African American Literature | 3 |
| LIT 261 | British Literature: Medieval Period to 1800 | 3 |
| LIT 262 | British Literature: 1800 to Present | 3 |
| LIT 265 | Shakespeare | 3 |
| LIT 270 | Children's Literature | 3 |
| LIT 280 | Science Fiction | 3 |
| LIT 285 | Women Writers | 3 |
| PHI 105 | Introduction to Philosophy | 3 |
| PHI 110 | Ethics | 3 |
| REL 105 | World Religions | 3 |
| Transfer Module | e Natural/Physical Sciences List A Elective | |
| BIO 131 | Biology 1 | 5 |
| BIO 132 | Biology 2 | 5 |
| BIO 151 | Anatomy and Physiology 1 | 4 |
| BIO 152 | Anatomy and Physiology 2 | 4 |
| CHE 121 | General Chemistry 1 | 5 |
| & CHE 131 | and General Chemistry 1 Lab | |
| CHE 122 & CHE 132 | General Chemistry 2 and General Chemistry 2 Lab | 5 |
| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab | 5 |
| CHE 202 | Organic Chemistry 2 | 5 |
| & CHE 212 | and Organic Chemistry 2 Lab | - |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 152 | Physics 2: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| | | |

| PHY 202 | Physics 2: Calculus-Based | 5 |
|-------------------|---|---|
| Transfer Module | Natural/Physical Sciences Other Elective | |
| BIO 111 | Biology: Unity of Life | 4 |
| BIO 112 | Biology: Diversity of Life | 4 |
| CHE 105 | Chemistry for Consumers | 3 |
| CHE 110 | Fundamentals of Chemistry | 4 |
| CHE 111 | Bio-Organic Chemistry | 4 |
| CHE 115 | General, Organic, and Biological Chemistry | 4 |
| EVS 110 | Environmental Science: Conservation and Cleanup | 4 |
| EVS 120 | Environmental Geology | 4 |
| EVS 130 | Environmental Science: Ecology and Ecosystems | 4 |
| PSC 105 | Astronomy | 4 |
| PSC 110 | Earth Science | 4 |
| PSC 115 | Energy | 3 |
| Non Transfer Mo | odule Electives | |
| First Year Exper | ience Elective | |
| FYE 100 | College Survival Skills | 1 |
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| Directed Elective | es | |
| ADC 100 | Drugs in Society | 3 |
| ADC 105 | Addiction, Counseling, and Diversity | 3 |
| ADC 110 | Pharmacology of Addiction | 3 |
| ADC 115 | Ethics in Addiction Treatment | 3 |
| ADC 120 | Addiction Screening, Assessment, and | 3 |
| | Treatment | |
| ADC 125 | Relapse, Treatment, and Prevention | 3 |
| ADC 205 | Addiction Studies Practicum | 2 |
| ART 120 | Design History | 3 |
| ART 130 | Photography | 3 |
| ART 141 | Drawing 1 | 3 |
| ART 142 | Drawing 2 | 3 |
| ART 143 | Drawing 3 | 3 |
| ART 150 | Watercolor | 3 |
| ART 161 | Sculpture 1 | 3 |
| ART 162 | Sculpture 2 | 3 |
| BIO 115 | Human Genetics | 3 |
| BIO 117 | Human Body in Health and Disease | 3 |
| BIO 210 | Cross Sectional Anatomy | 2 |
| BIO 220 | Microbiology | 3 |
| BIO 230 | Pharmacology | 3 |
| BIO 240 | Pathophysiology | 3 |
| BIO 250 | Cell Biology | 5 |
| BIO 260 | Genetics | 5 |
| BIO 270 | Ecology | 5 |
| BIO 275 | Animal Behavior | 5 |
| COMM 105 | Interpersonal Communication | 3 |
| COMM 115 | Introduction to Journalism | 3 |
| COMM 120 | Mass Media and Society | 3 |
| COMM 205 | Small Group Communication | 3 |
| COMM 215 | Journalism Practicum | 2 |
| | | |

| CRJ 102 | Juvenile Delinquency | 3 |
|----------|--|-----|
| CRJ 105 | Introduction to Criminal Justice | 3 |
| CRJ 110 | Introduction to Policing | 3 |
| CRJ 115 | Introduction to Corrections | 3 |
| CRJ 120 | Introduction to Courts | 3 |
| CRJ 125 | Criminology | 3 |
| CRJ 130 | Criminal Investigation Skills | 3 |
| CRJ 135 | Criminal Law | 3 |
| CULT 105 | Issues in Human Diversity | 3 |
| CULT 110 | Social Issues in Technology | 3 |
| EDU 105 | Introduction to Education | 3 |
| EDU 110 | Educational Technology | 3 |
| EDU 200 | Individuals with Exceptionalities | 3 |
| EDU 210 | Learning in Childhood | 3 |
| ENG 100 | English Principles: Grammar and Structure | 2 |
| ENG 131 | Creative Writing: Poetry | 3 |
| ENG 132 | Creative Writing: Fiction | 3 |
| ENG 134 | Creative Writing: Writing for Children | 3 |
| FRN 101 | Elementary French 1 | 4 |
| FRN 102 | Elementary French 2 | 4 |
| FRN 201 | Intermediate French 1 | 4 |
| FRN 202 | Intermediate French 2 | 4 |
| ITP 101 | Beginning American Sign Language 1 | 3 |
| ITP 102 | Beginning American Sign Language 2 | 3 |
| ITP 201 | Intermediate American Sign Language 1 | 3 |
| ITP 202 | Intermediate American Sign Language 2 | 3 |
| ITP 251 | Advanced American Sign Language 1 | 3 |
| ITP 252 | Advanced American Sign Language 2 | 3 |
| LDR 200 | Transformational Leadership in Practice | 3 |
| LDR 230 | Ethical Leadership | 2 |
| LDR 240 | Applied Leadership Theory | 3 |
| LDR 290 | Leadership Capstone | 2 |
| MAT 105 | Quantitative Reasoning | 3 |
| MAT 115 | Pre-Statistics | 3 |
| MAT 121 | Technical Algebra and Geometry with Statistics | 3 |
| MAT 132 | Statistics 2 | 3 |
| MUS 100 | Musical Concepts | 3 |
| MUS 131 | Vocal Ensemble for Mixed Voices 1 | 1 |
| MUS 132 | Vocal Ensemble for Mixed Voices 2 | 1 |
| MUS 133 | Vocal Ensemble for Mixed Voices 3 | 1 |
| MUS 134 | Vocal Ensemble for Mixed Voices 4 | 1 |
| PHY 150 | Introduction to Physics | 3 |
| PSY 100 | Applied Psychology: Human Relations | 3 |
| PSY 102 | Applied Psychology: Stress Management | 3 |
| PSY 105 | Psychology of Leadership | 4 |
| PSY 198 | First Year Special Topics in Psychology | 1-9 |
| REL 110 | The Old Testament | 3 |
| REL 115 | The New Testament | 3 |
| SOC 200 | Race, Ethnicity, and Minorities | 3 |
| SPN 100 | Spanish for the Professions | 2 |
| SPN 101 | Elementary Spanish 1 | 4 |
| SPN 102 | Elementary Spanish 2 | 4 |
| | | |

| SPN 200 | Spanish Conversation and Composition | 3 |
|-----------------|--|---|
| SPN 201 | Intermediate Spanish 1 | 4 |
| SPN 202 | Intermediate Spanish 2 | 4 |
| SPN 221 | Spanish 1 for Business and Finance | 4 |
| SPN 222 | Spanish 2 for Business and Finance | 4 |
| SPT 100 | Introduction to Sport Management | 3 |
| SPT 105 | Sport in Society | 3 |
| SPT 110 | Principles of Coaching | 3 |
| SPT 115 | Ethics in Sport | 3 |
| SPT 120 | Sport Marketing | 3 |
| SWK 110 | Introduction to Social Work | 3 |
| SWK 200 | Social Welfare Policy | 3 |
| SWK 205 | Case Management for Human Services Professionals | 3 |
| THE 115 | Acting | 3 |
| THE 140 | Oral Interpretation of Literature | 3 |
| THE 240 | Performance Practicum | 2 |
| Co-Op/Internshi | p Electives | |
| HUM 191 | Part-Time Cooperative Education 1: Associate of Arts and Sciences | 1 |
| HUM 192 | Part-Time Cooperative Education 2: Associate of Arts and Sciences | 1 |
| HUM 194 | Part-Time Career Education Project 1: Associate of Arts and Sciences | 1 |
| HUM 195 | Part-Time Career Education Project 2: Associate of Arts and Sciences | 1 |
| HUM 291 | Full-Time Cooperative Education 1: Associate of Arts and Sciences | 2 |
| HUM 292 | Full-Time Cooperative Education 2: Assoc | 2 |
| HUM 294 | Internship: Associate of Arts and Sciences | 2 |
| HUM 296 | Full-Time Career Education Project: Associate of Arts and Sciences | 2 |

Associate of Science (ASCI)

- · Communicate effectively
- Evaluate arguments in a logical fashion
- Employ the methods of inquiry characteristic of natural sciences, social sciences, and the arts and humanities
- Acquire an understanding of our global and diverse culture and society
- Engage in our democratic society
- Understand and experience a professional setting aligned with the specific major of study for transfer
- Understand fundamental principles related to the specific major of study for transfer

Faculty

Program Chair

Jen Martin, MA jennifer.martin@cincinnatistate.edu

Co-op Coordinator

Falicia Grace, BS falicia.grace@cincinnatistate.edu

Advisors

Renee Rodriguez-Merino, MAEd renee.rodriguez@cincinnatistate.edu

Jessica Fager, MS jessica.fager@cincinnatistate.edu

Susan Kowalski, MS susan.kowalski@cincinnatistate.edu

Early Childhood Education (ECE)

Early Childhood Education (ECE)

The Early Childhood Education program at Cincinnati State prepares graduates for employment in a variety of early childhood settings. Students who complete the program earn an Associate of Applied Science degree, and are eligible to apply for the Pre-Kindergarten Associate Teacher License offered by the Ohio Department of Education.

The William L. Mallory Early Learning Center on the Cincinnati State Clifton Campus provides outstanding childcare and also serves as a learning lab for students earning the Early Childhood Education degree.

Graduates of the Early Childhood Education program are prepared to move directly into related employment opportunities or to transfer to a bachelor's degree program in a related field.

The Early Childhood Education associate's degree program is accredited by the National Association for the Education of Young Children's (NAEYC) Commission on the Accreditation of Early Childhood Education Programs.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Early Childhood Education (ECE)

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|---------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX | | 1 | 0 | 1 |
| First Year | | | | |
| Experience | | | | |
| Elective (B) | | | | |
| MAT XXX | | 3 | 0 | 3 |
| Math Elective | | | | |
| (G) | | | | |
| EDU 105 | Introduction to Education (B) | 3 | 0 | 3 |
| ECE 145 | The Developing Child (B) | 3 | 0 | 3 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| Semester 2 | | | | |
| ECE 160 | Assessment and Observation in | 3 | 0 | 3 |
| | Early Childhood Education (B) | | | |

| Total Credits: | | 59 | 24 | 65 |
|---|---|----|----|----|
| Elective (G) | | | | |
| Science | | 3 | 2 | 4 |
| XXX XXX | • / | 3 | 2 | 4 |
| EDU 200 | Individuals with Exceptionalities (T) | 3 | 0 | 3 |
| ECE 290 | Student Teaching in Early Childhood Education (T) | 1 | 14 | 3 |
| ECE 230 | Administration and Leadership in Early Childhood Education (T) | 3 | 0 | 3 |
| EDU 210 | Learning in Childhood (T) | 3 | 0 | 3 |
| Semester 4 | | | | |
| English Composition Elective (G) | | | | |
| ENG 10X | | 3 | 0 | 3 |
| ECE 165 | Emergent Literacy (T) | 3 | 0 | 3 |
| ECE 220 | Preschool and School Age Environments (T) | 3 | 3 | 4 |
| ECE 215 | Classroom Management and Guidance (T) | 3 | 0 | 3 |
| ECE 185 | Creative Learning Environments (T) | 4 | 0 | 4 |
| Semester 3 | | | | |
| EDU 110 | Educational Technology (T) | 2 | 2 | 3 |
| ECE 175 | Family, Community, and Schools (B) | 3 | 0 | 3 |
| ECE 155 | Health, Safety, and Nutrition in Childhood (B) | 3 | 0 | 3 |
| ECE 180 | Infant and Toddler Environments (T) | 3 | 3 | 4 |
| | | | | |

Electives

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compo | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| Math Elective | | |
| MAT 105 | Quantitative Reasoning | 3 |
| MAT 111 | Business Mathematics | 3 |
| Science Elective | e | |
| BIO 111 | Biology: Unity of Life | 4 |
| EVS 110 | Environmental Science: Conservation and Cleanup | 4 |
| EVS 120 | Environmental Geology | 4 |
| EVS 130 | Environmental Science: Ecology and Ecosystems | 4 |
| PSC 105 | Astronomy | 4 |
| PSC 110 | Earth Science | 4 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio

Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Early Childhood Education (ECE)

- · Promoting Child Development and Learning
 - Knowing and understanding young children's characteristics and needs, from birth through age 8.
 - Knowing and understanding the multiple influences on early development and learning.
 - Using developmental knowledge to create healthy, respectful, supportive, and challenging learning environments for young children.
- Building Family and Community Relationships
 - Knowing about and understanding diverse family and community characteristics.
 - Supporting and engaging families and communities through respectful, reciprocal relationships.
 - Involving families and communities in young children's development and learning.
- Observing, Documenting, and Assessing to Support Young Children and Families
 - Understanding the goals, benefits, and uses of assessment-including its use in development of appropriate goals, curriculum, and teaching strategies for young children.
 - Knowing about and using observation, documentation, and other appropriate assessment tools and approaches, including the use of technology in documentation, assessment, and data collection.
 - Understanding and practicing responsible assessment to promote positive outcomes for each child, including the use of assistive technology for children with disabilities.
- Using Developmentally Effective Approaches
 - Understanding positive relationships and supportive interactions as the foundation of their work with young children.
 - Knowing and understanding effective strategies and tools for early education, including appropriate uses of technology.
 - Using a broad repertoire of developmentally appropriate teaching/learning approaches.
 - Reflecting on own practice to promote positive outcomes for each child.
- Using Content Knowledge to Build Meaningful Curriculum
 - Understanding content knowledge and resources in academic disciplines: language and literacy; the arts (music, creative movement, dance, drama, visual arts); mathematics; science (physical activity, physical education, health and safety); and social studies.
 - Knowing and using the central concepts, inquiry tools, and structures of content areas or academic disciplines.
 - Using own knowledge, appropriate early learning standards, and other resources to design, implement, and evaluate developmentally meaningful and challenging curriculum for each child.

- · Becoming a Professional
 - · Identifying and involving oneself with the early childhood field.
 - Knowing about and upholding ethical standards and other early childhood professional guidelines.
 - Engaging in continuous, collaborative learning to inform practice; using technology effectively with young children, with peers, and as a professional resource.
 - Integrating knowledgeable, reflective, and critical perspectives on early education.
 - Engaging in informed advocacy for young children and the early childhood profession.

Faculty

Program Chair/ Advisor

Professor Sandra Owen, MEd sandra.owen@cincinnatistate.edu

Advisor

Holly McArthur, MEd holly.mcarthur@cincinnatistate.edu

Human Services Certificate (HSC)

Human Services Certificate (HSC)

Note: This program is not currently admitting new students.

The Human Services certificate increases the competitiveness of the student's or graduate's resume. The certificate demonstrates student versatility and breadth of knowledge regarding theoretical perspectives, skills, and competencies needed to enter one of many helping professions, such as Social Work, Criminal Justice, Child Welfare, Psychology, Human Services, or Addiction Treatment and Counseling.

The certificate program, along with an Associate of Arts degree, maximizes student employability and provides a strong foundation for seeking a bachelor's degree in a human services field.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

Human Services Certificate (HSC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---------------------------------|-----|--------|-------|
| ADC 100 | Drugs in Society | 3 | 0 | 3 |
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| SOC 105 | Introduction to Sociology | 3 | 0 | 3 |
| Semester 2 | | | | |
| ENG 102 | English Composition 2: | 3 | 0 | 3 |
| | Contemporary Issues | | | |
| PSY 110 | Introduction to Psychology | 3 | 0 | 3 |
| SWK 110 | Introduction to Social Work | 3 | 0 | 3 |
| Semester 3 | | | | |
| COMM 110 | Public Speaking | 3 | 0 | 3 |
| SOC 200 | Race, Ethnicity, and Minorities | 3 | 0 | 3 |

| SWK 200 | Social Welfare Policy | 3 | 0 | 3 |
|--|---|----|---|----|
| Semester 4 | | | | |
| SWK 205 | Case Management for Human Services Professionals | 3 | 0 | 3 |
| SWK 215 | Human Services Practicum | 1 | 7 | 2 |
| XXX XXX Social Science Elective | | | | 3 |
| Total Credits | »: | 31 | 7 | 35 |

Electives

Social Science Elective

| CRJ 102 | Juvenile Delinquency | 3 |
|---------|----------------------------------|---|
| CRJ 105 | Introduction to Criminal Justice | 3 |
| SOC 130 | Sociology of Aging | 3 |

Faculty

Program Advisor

Marianne Niese, MSEd, LPCC-S marianne.niese@cincinnatistate.edu

Interpreter Training Program & Deaf Studies Certificate (ITP & DSC)

Interpreter Training Program (ITP)

The Interpreter Training Program at Cincinnati State is a stepping stone toward competency in the field of sign language interpreting, including extensive coursework in American Sign Language (ASL) and Deaf Studies. The combination of classroom instruction, experiential and self-directed growth, and community involvement creates a rich learning environment. Program graduates earn an Associate of Applied Science degree.

Interpreting between ASL and English is a challenging and complex task. Students learning the profession must develop fluency in a language that is different from spoken languages. Once fluency is achieved, students must develop the skills to facilitate communication quickly and accurately between the two languages.

The skills required for success in Interpreter Training cannot be mastered through classroom attendance alone. Students must devote a great deal of time to study, practice, skill development, observation, and community involvement.

To complete the degree program successfully, students must be able to comprehend, write, and speak in English fluently.

Deaf Studies Certificate (DSC)

The Deaf Studies certificate enables students to learn about sign language and Deaf culture in order to be involved as an advocate or signer, but not as a paid professional interpreter.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Interpreter Training Program (ITP)

Program Prerequisite: ITP 101 Beginning American Sign Language 1 and ITP 102 Beginning American Sign Language 2 and ITP 140 Fingerspelling and Numbers or ITP Program Chair consent.

| Semester 1 | | Lec | Lab Cr | edits |
|--|--|-----|--------|-------|
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| ITP 201 | Intermediate American Sign Language 1 (B) | 3 | 1 | 3 |
| ITP 125 | Deaf Culture and History (B) | 2 | 0 | 2 |
| ITP 120 | Psychosocial Aspects of Deafness (B) | 2 | 0 | 2 |
| Semester 2 | | | | |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| ITP 202 | Intermediate American Sign Language 2 (B) | 3 | 1 | 3 |
| ITP 135 | Introduction to the Interpreting Profession (B) | 2 | 0 | 2 |
| ITP 130 | Legal Issues of Deafness (B) | 1 | 0 | 1 |
| ENG 1XX English Composition Elective (G) | | 3 | 0 | 3 |
| Semester 3 | | | | |
| ITP 220 | Educational Intepreting (B) | 2 | 0 | 2 |
| ITP 230 | Intermediate Assessment (B) | 1 | 0 | 1 |
| MAT 1XX Mathematics Elective (G) | | 3 | 2 | 3 |
| XXX XXX Arts/ Humanities Elective (G) | | 3 | 0 | 3 |
| ITP XXX Interpreting Elective (B) | | 2 | 0 | 2 |
| Semester 4 | | | | |
| ITP 251 | Advanced American Sign Language 1 (T) | 3 | 1 | 3 |
| ITP 261 | Advanced Interpreting 1: Sign to Voice (T) | 3 | 0 | 3 |
| ITP 250 | Interactive Interpreting (T) | 3 | 0 | 3 |
| ITP 270 | Transliterating (T) | 3 | 0 | 3 |
| Semester 5 | | | | |
| ITP 252 | Advanced American Sign Language 2 (T) | 3 | 1 | 3 |
| ITP 265 | Interpreting in Specialized Settings (${\bf T}$) | 3 | 0 | 3 |
| | | | | |

| ITP XXX Interpreting Practicum 1 Option (T) Semester 6 | | 2 | 10 | 3 |
|--|---|----|----|----|
| ITP 262 | Advanced Interpreting 2: Sign to Voice (T) | 3 | 0 | 3 |
| ITP 280 | Interpreter Professionalism (T) | 2 | 0 | 2 |
| ITP XXX Interpreting Practicum 2 Option (T) | | 2 | 10 | 3 |
| ITP 275 | Interpreting in Medical Settings (T) | 2 | 0 | 2 |
| Total Credits | : | 63 | 26 | 65 |

Electives

English Composition Elective

| ENG 102 | English Composition 2: Contemporary Issues | 3 | |
|--------------------------|---|---|--|
| ENG 103 | English Composition 2: Writing about Literature | 3 | |
| ENG 104 | English Composition 2: Technical Communication | 3 | |
| ENG 105 | English Composition 2: Business Communication | 3 | |
| Interpreting Elective | | | |
| ITP 205 | Performance Interpreting | 2 | |
| ITP 210 | Deaf-Blind Interpreting | 2 | |
| ITP 215 | Religious Interpreting | 2 | |
| ITP 225 | Vocabulary Building | 2 | |
| Arts/Humanities Elective | | | |

Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130

Mathematics Elective

| MAT 111 | Business Mathematics | 3 |
|---------------|---|---|
| MAT 131 | Statistics 1 | 3 |
| MAT 151 | College Algebra | 4 |
| Internation D | mantiarum Outlana (Canadita af manatiarum | |

Interpreting Practicum Options (6 credits of practicum required)

| requireu) | | |
|-----------|------------------------------------|---|
| ITP 191 | ITP Limited Practicum 1 | 1 |
| ITP 192 | ITP Limited Practicum 2 | 1 |
| ITP 193 | ITP Limited Practicum 3 | 1 |
| ITP 194 | ITP Limited Practicum 4 | 1 |
| ITP 195 | ITP Limited Practicum 5 | 1 |
| ITP 196 | ITP Limited Practicum 6 | 1 |
| ITP 291 | ITP Parallel Practicum 1 | 2 |
| ITP 292 | ITP Parallel Practicum 2 | 2 |
| ITP 293 | ITP Parallel Practicum 3 | 2 |
| ITP 294 | Educational Interpreting Practicum | 2 |
| ITP 295 | ITP General Practicum 1 | 3 |
| ITP 296 | ITP General Practicum 2 | 3 |

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Deaf Studies Certificate (DSC)

| Semester 1 | | Lec | Lab C | redits |
|---------------------------------------|---|-----|-------|--------|
| ITP 102 | Beginning American Sign Language 2 | 3 | 1 | 3 |
| ITP 120 | Psychosocial Aspects of Deafness | 2 | 0 | 2 |
| ITP 125 | Deaf Culture and History | 2 | 0 | 2 |
| ITP 140 | Fingerspelling and Numbers | 2 | 0 | 2 |
| Semester 2 | | | | |
| ITP 130 | Legal Issues of Deafness | 1 | 0 | 1 |
| ITP 135 | Introduction to the Interpreting Profession | 2 | 0 | 2 |
| ITP 201 | Intermediate American Sign Language 1 | 3 | 1 | 3 |
| Semester 3 | | | | |
| ITP 202 | Intermediate American Sign Language 2 | 3 | 1 | 3 |
| ITP 220 | Educational Intepreting | 2 | 0 | 2 |
| ITP XXX Interpreting Elective 1 | | | | 2 |
| ITP XXX Interpreting Elective 2 | | | | 2 |
| Total Credits: | : | 20 | 3 | 24 |

Program Prerequisite: Prior to enrolling in ITP 102 Beginning American Sign Language 2, students must complete ITP 101 Beginning American Sign Language 1 (or program chair consent)

Electives

Interpreting Elective

| ITP 205 | Performance Interpreting | 2 |
|---------|--------------------------|---|
| ITP 210 | Deaf-Blind Interpreting | 2 |
| ITP 215 | Religious Interpreting | 2 |

Interpreter Training Program (ITP)

- Demonstrate knowledge of the profession's Code of Professional Conduct and professional standards by analyzing interpreting related scenarios using the Demand-Control Schema to determine appropriate actions.
- Apply academic, professional, and world knowledge to the options and decisions made while interpreting in the community.
- · Exhibit effective interpreting and transliterating skills receptively and expressively.
- Demonstrate the ability to professionally work within a team environment incorporating appropriate attire, behavior, and ethical business practices.
- · Recognize, understand, and apply the appropriate etiquettes of Deaf Culture norms.

- Cultivate an openness to new ideas about Deaf awareness and the ability to recognize audism and to avoid oppressive behavior of all kinds.
- Demonstrate the ability to effectively communicate in ASL with diverse members of the Deaf community in many types of settings.
- Demonstrate an understanding of multicultural approaches to the work of interpreting and incorporate effective bi-lingual and bicultural aspects to the work.
- Demonstrate the ability to appropriately self assess signing and voicing skills in relation to a variety of interpreting settings and consumers to make appropriate decisions in regards to discretion in accepting assignments.
- Demonstrate effective interpreting skills in one-on-one, small group, and some large group settings as an entry level interpreter in the field.

Faculty

Program Chair/Advisor

Dawn Caudill, CI, CT, NAD5 dawn.caudill@cincinnatistate.edu

Other Full-time Faculty

Anthony Merchinsky, BS anthony.merchinsky@cincinnatistate.edu

Leadership Certificate (LDRC)

Leadership Certificate (LDRC)

The Leadership Certificate complements many degree programs. Students develop skills that apply to leadership positions in a variety of work and community environments, including skills in communication, small group facilitation, critical analysis, and problem solving.

Students who complete the Leadership Certificate gain knowledge of their own leadership styles, abilities, and outcomes through classroom activities as well as real-world leadership experiences.

Leadership Certificate (LDRC)

First Year

| Semester 1 | | Lec | Lab Cr | edits |
|-------------|------------------------------|-----|--------|-------|
| ENG 101 | English Composition 1 | 3 | 0 | 3 |
| FYE 110 | Community College Experience | 3 | 0 | 3 |
| XXX-XXX | | 3 | 0 | 3 |
| Leadership | | | | |
| Skills | | | | |
| Elective 1 | | | | |
| Semester 2 | | | | |
| PSY 105 | Psychology of Leadership | 2 | 4 | 4 |
| XXX-XXX | | 3 | 0 | 3 |
| Leadership | | | | |
| Skills | | | | |
| Elective 2 | | | | |
| XXX-XXX | | 3 | 0 | 3 |
| Communicati | on | | | |
| Elective | | | | |
| Semester 3 | | | | |

| LDR 200 | Transformational Leadership in Practice | 2 | 2 | 3 |
|---|---|----|---|----|
| XXX-XXX Leadership Skills Elective 3 | | 3 | 0 | 3 |
| XXX-XXX Leadership Theory Elective | | 3 | 0 | 3 |
| Semester 4 | | | | |
| LDR 230 | Ethical Leadership (Ethical Leadership) | 2 | 0 | 2 |
| LDR 290 | Leadership Capstone (Leadership Capstone) | 2 | 0 | 2 |
| XXX-XXX Leadership Skills Elective 4 | | 3 | 0 | 3 |
| Total Credits | • | 32 | 6 | 35 |

Electives

Communication Elective

| Interpersonal Communication (Communication Competency) | 3 |
|--|---|
| Public Speaking | 3 |
| Small Group Communication | 3 |
| Introduction to Negotiation and Dispute Resolution | 3 |
| ory Elective | |
| Applied Leadership Theory | 3 |
| Leadership | 3 |
| ls Electives (12 credit hours required) 1 | |
| Drugs in Society | 3 |
| Interpersonal Communication (if not used for Communication Competency) | 3 |
| Public Speaking (if not used for Communication Competency) | 3 |
| Small Group Communication (if not used for Communication Competency) | 3 |
| Introduction to Criminal Justice | 3 |
| Issues in Human Diversity | 3 |
| Social Issues in Technology | 3 |
| Family, Community, and Schools | 3 |
| Introduction to Education | 3 |
| Crew Resource Management | 2 |
| Second Year Special Topics in First Year Experience | 1-9 |
| Second Year Independent Project in First Year Experience | 1-9 |
| Foundations of Health and Wellness Programs | 3 |
| Legal Aspects of Health Information Management | 2 |
| Health Information Management Strategies | 3 |
| Rooms Division Management | 4 |
| | Competency) Public Speaking Small Group Communication Introduction to Negotiation and Dispute Resolution ory Elective Applied Leadership Theory Leadership Is Electives (12 credit hours required) Interpersonal Communication (if not used for Communication Competency) Public Speaking (if not used for Communication Competency) Small Group Communication (if not used for Communication Competency) Introduction to Criminal Justice Issues in Human Diversity Social Issues in Technology Family, Community, and Schools Introduction to Education Crew Resource Management Second Year Special Topics in First Year Experience Second Year Independent Project in First Year Experience Foundations of Health and Wellness Programs Legal Aspects of Health Information Management Health Information Management Strategies |

| IM 175 | Administrative Office Management | 3 |
|---------|---|-----|
| LAW 101 | Business Law | 3 |
| LAW 110 | Employment Law | 3 |
| LBR 105 | Introduction to Labor and Employee Relations | 3 |
| LDR 198 | First Year Special Topics in Leadership | 3 |
| LDR 298 | Second Year Special Topics in Leadership | 3 |
| LH 240 | Landscape Management | 3 |
| LH 255 | Golf Course and Athletic Field Management | 3 |
| LH 260 | Athletic Field Management | 3 |
| MCH 108 | Professionalism in Healthcare | 3 |
| MCH 114 | Law and Ethics for Healthcare | 2 |
| MCH 116 | Cultural Competency for Health and Public Safety Professions | 3 |
| MGT 101 | Principles of Management | 3 |
| MGT 105 | Human Resource Management | 3 |
| MGT 130 | Project Management | 3 |
| MKT 101 | Principles of Marketing | 3 |
| MKT 105 | Marketing and Customer Relations | 3 |
| NDR 100 | Introduction to Negotiation and Dispute Resolution (if not used for Communication Competency) | 3 |
| PHI 110 | Ethics | 3 |
| PST 130 | Public Safety Communication Practices | 3 |
| PSY 100 | Applied Psychology: Human Relations | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| PSY 220 | Social Psychology | 3 |
| PSY 298 | Second Year Special Topics in Psychology | 1-9 |
| SOC 200 | Race, Ethnicity, and Minorities | 3 |
| SPT 115 | Ethics in Sport | 3 |
| SPT 105 | Sport in Society | 3 |
| | | |

Students choose electives in consultation with Certificate Chair/ Advisor. Other courses may be substituted with prior consent of Chair/Advisor.

Faculty

Chair

Julie McLaughlin, MA julie.mclaughlin@cincinnatistate.edu

Law Enforcement (ATSLE)

Law Enforcement (ATSLE)

The Associate of Technical Studies degree program in Law Enforcement is for individuals currently working in law enforcement who want to qualify for advancement within their field. The ATSLE provides an opportunity for certified Ohio police/peace officers to obtain an associate's degree.

To enroll in this program, students must have a certificate in basic peace officer training issued by the Ohio Peace Officer Training Academy or equivalent state/federal law enforcement training. The OPOTA certificate is equivalent to 16 credit hours toward the associate's degree. Training must be approved by the Program Chair to be awarded academic credit.

For more information, please contact the Humanities and Sciences Division at (513) 569-1700.

To apply for this program at Cincinnati State, visit the Admissions (http://www.cincinnatistate.edu/academics/admission) section of the College website.

Law Enforcement (ATSLE)

| Semester 1 | | Lec | Lab C | redits |
|--|---|-----|-------|--------|
| PST 150 | Law Enforcement Studies: Advanced Standing (T) | 16 | 0 | 16 |
| ENG 101 | English Composition 1 (G) | 3 | 0 | 3 |
| FYE 1XX First Year Experience Elective (B) | | 1 | 0 | 1 |
| Semester 2 | | | | |
| MAT 130 | Intermediate Algebra for Statistics (G) | | | 4 |
| SOC 105 | Introduction to Sociology (T) | 3 | 0 | 3 |
| CULT 105 | Issues in Human Diversity (B) | 3 | 0 | 3 |
| COMM 110 | Public Speaking (B) | 3 | 0 | 3 |
| ENG 10X English Composition Elective (G) | | 3 | 0 | 3 |
| Semester 3 | | | | |
| MGT 101 | Principles of Management (B) | 3 | 0 | 3 |
| PSY 110 | Introduction to Psychology (G) | 3 | 0 | 3 |
| ACC 101 | Financial Accounting (T) | 2 | 2 | 3 |
| MGT 105 | Human Resource Management (B) | 3 | 0 | 3 |
| Semester 4 | | | | |
| PHI 110 | Ethics (G) | 3 | 0 | 3 |
| LBR 105 | Introduction to Labor and Employee Relations (B) | 3 | 0 | 3 |
| ACC 102 | Managerial Accounting (T) | 2 | 2 | 3 |
| MGT 220 | Leadership (T) | 3 | 0 | 3 |
| MGT 110 | Employee Compensation and Benefits (T) | 3 | 0 | 3 |
| Total Credits | : | 57 | 4 | 63 |

Electives

EVE 100

First Year Experience Elective

| FYE 100 | College Survival Skills | 1 |
|----------------|---|---|
| FYE 105 | College Success Strategies | 2 |
| FYE 110 | Community College Experience | 3 |
| English Compos | sition Elective | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

College Survival Skille

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Faculty

Program Chair/Advisor

Thomas Bauer, MS thomas.bauer@cincinnatistate.edu

College-Wide Graduation Requirements

Students seeking the Associate of Arts (AA) or Associate of Science (AS) degree must meet the general education requirements for the degrees as published in the Humanities and Sciences (p. 140) section of this Catalog.

As part of the graduation requirements for the Associate of Applied Business (AAB), Associate of Applied Science (AAS), Associate of Individualized Study (AIS), and Associate of Technical Study (ATS) degrees, a student must complete at least 15 credit hours in general education areas, distributed as follows:

| Communication Skills | 6 |
|--|--------------|
| | credits |
| Arts/Humanities, Natural Sciences, and Social Sciences | 6 credits |
| Mathematics | 3 |
| | credits |

Communication Skills - 6 credits

| department | department code |
|---------------------------------|---------------------|
| 6 credits Written Communication | department code ENG |

Arts/Humanities, Natural Sciences, Social Sciences - 6 credits selected from two of these areas:

Arts/Humanities, including:

| department | department code |
|-------------------|-----------------------------------|
| Art | department code ART ² |
| Communication | department code COMM ¹ |
| Culture Studies | department code CULT |
| Foreign Languages | department code FRN,SPN |
| Literature | department code LIT |
| Music | department code MUS ² |
| Philosophy | department code PHI |
| Religion | department code REL |
| Theatre | department code THE ² |

Excluding COMM 110

² Excluding studio or performance-based courses.

Natural Sciences, including:

| department | department code |
|-----------------------|---------------------|
| Biology | department code BIO |
| Chemistry | department code CHE |
| Environmental Science | department code EVS |
| Physics | department code PHY |
| Physical Science | department code PSC |

Social/Behavioral Sciences, including:

| department | department code |
|-------------------|---------------------|
| Economics | department code ECO |
| Geography | department code GEO |
| History | department code HST |
| Labor Relations | department code LBR |
| Political Science | department code POL |
| Psychology | department code PSY |
| Sociology | department code SOC |

Mathematics - 3 credits

| department | department code |
|-----------------------|---------------------|
| 3 credits Mathematics | department code MAT |

Students seeking an AAB, AAS, or ATS degree should consult the curriculum for their program, as published in this Catalog, to determine how the general education requirements should be met.

- Individual degree programs may require students to complete program-specified general education courses, or may permit students to choose some general education elective courses.
- Transfer credit for social science or humanities courses completed at another institution, in disciplines not listed above, may be applied toward Cincinnati State graduation requirements with the program chair's permission.

Students seeking an AIS degree or an ATS degree not published in this Catalog must meet general education requirements established for the specific degree program.

Program Graduation Requirements (Degree Audit Curriculum)

Requirements for each degree and certificate program at Cincinnati State are published each year in this Catalog. Students are expected to fulfill the requirements in effect for the catalog year they are admitted to the program. This set of requirements may be referred to as the student's Academic Evaluation or Degree Audit curriculum.

Students readmitted to the College after an absence of one year or more are expected to fulfill the requirements in effect at the time of readmission.

In situations where coursework is five years old or older, or where requisite skills may have been lost, courses previously taken are subject to review by the program chair and dean. Those courses reviewed that do not meet current program requirements and standards will not count toward degree or certificate requirements.

Students should consult with their program chair or academic advisor to discuss any changes made to program requirements that could affect progress toward completing their degree or certificate program.

First Year Experience (FYE) Requirement

All Cincinnati State students who enroll in a degree program are required to complete a First Year Experience (FYE) course: FYE 100 College Survival Skills (placement into ENG 101 is required); FYE 105 College Success Strategies; or FYE 110 Community College Experience.

FYE courses introduce students to the college experience and to Cincinnati State's expectations and resources for new students, as well as college and life success skills. Students should work closely with an academic advisor to determine the appropriate FYE course in which to enroll.

The FYE course must be completed as part of the first semester of classes taken at Cincinnati State. Students in the Cincinnati State Honors Program fulfill the FYE course requirement by completing HNR 100 Orientation to Honors.

Some certificate programs also require students to complete an FYE course. Each certificate program that requires completion of an FYE course is indicated in the curriculum published in this Catalog.

The Honors Program

The Cincinnati State Honors Program supports the College goal of serving all aspects of the community by offering enhanced learning opportunities to academically talented, highly motivated students. The Honors Program curriculum complements existing degree programs; students can take Honors sections of many required courses.

The Honors Program strives to establish an intellectual community among students and faculty by providing challenging coursework, academic enrichment activities, academic honors advising, and opportunities for student involvement. Honors Program graduates receive recognition at commencement and on their diploma and transcripts.

The Honors Program is open to full-time and part-time admitted degree-seeking students, in all divisions of the College, who meet the entry criteria listed below. Students are first admitted to a degree program and then to the Honors Program.

All Honors Program students must take HNR 100 Orientation to Honors, as a prerequisite to or concurrent with other Honors classes.

Students accepted into the Honors Program who begin at Cincinnati State in the Fall Semester are eligible to apply for an Honors Program scholarship.

In addition to HNR 100 Orientation to Honors courses regularly offered as part of the Honors Program include:

| BIO 151 | Anatomy and Physiology 1 | 4 |
|----------|-----------------------------|---|
| BIO 152 | Anatomy and Physiology 2 | 4 |
| COMM 105 | Interpersonal Communication | 3 |
| COMM 110 | Public Speaking | 3 |

| ENG 101 | English Composition 1 | 3 |
|---------|---|-----|
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| HST 111 | American History: Early Settlers to 1877 | 3 |
| HST 112 | American History: 1877 to Present | 3 |
| HNR 198 | First Year Special Topics in Honors Program | 1-9 |
| LAW 101 | Business Law | 3 |
| LIT 200 | Introduction to Literature | 3 |
| LIT 210 | The Short Story | 3 |
| LIT 240 | The Novel | 3 |
| LIT 285 | Women Writers | 3 |
| PHI 105 | Introduction to Philosophy | 3 |
| PSY 110 | Introduction to Psychology | 3 |
| SOC 105 | Introduction to Sociology | 3 |

The entry criteria for the Honors Program include:

- 1. New student, entering Cincinnati State directly from high school:
 - Must have appropriate scores on the College placement/ assessment test, and at least one of the following:
 - · High school GPA of 3.25 or higher
 - High school rank in top 20%
 - ACT score of 26
- New student, entering Cincinnati State five or more years after high school: Must have appropriate scores on the College placement/ assessment test
- 3. Current student: college GPA of 3.25 after 12 academic credits
- 4. Transfer student: college GPA of 3.25 after 12 academic credits

All students applying for the Honors Program must submit two letters of recommendation from persons familiar with their academic potential and performance in a teaching/learning environment.

For more information:

Contact Dr. Andrea Trapp, Honors Program Chair, at (513) 569-1646, or visit the Honors Program (http://www.cincinnatistate.edu/real-world-academics/honors-experience-at-cincinnati-state/honors-experience-at-cincinnati-state/?searchterm=honors) page on the College website.

Academic Foundations

Academic Foundations courses are available for students whose placement test scores indicate a need for additional preparation in the areas of reading, writing, and/or math skills before entering their program of study. Typically, students complete Academic Foundations courses prior to taking core courses in their degree program. However, in some cases, Academic Foundations courses can be taken in conjunction with program-level coursework.

Students who need foundations courses should work closely with their assigned academic advisor, who assists the student in selecting appropriate coursework and monitors the student's progress toward meeting program admission requirements.

Courses in study skills are also available. These courses provide students with important college success skills such as taking tests, managing time, using the library, and taking notes. In addition, a

computer learning laboratory and tutoring services are provided free of charge when extra help is needed.

Courses with the department code AFL (Academic Foundations - Language), AFM (Academic Foundations - Math) or ESL (English as a Second Language) are counted in the total number of attempted hours on student transcripts, but they are not used to calculate a student's grade point average (GPA). Even though these grades do not affect the GPA, they can affect financial aid eligibility. Academic Foundations courses cannot be counted toward meeting graduation requirements.

The following Academic Foundations courses are offered regularly:

| AFL 080 | Fundamentals of College Reading and Writing | 5 |
|---------|---|---|
| AFL 085 | Applications of College Reading and Writing | 5 |
| AFM 091 | Pre-Algebra | 2 |
| AFM 092 | Introductory Algebra | 3 |
| AFM 094 | Basic Algebra | 3 |
| AFM 097 | Intermediate Algebra | 3 |
| ESL 051 | English as a Second Language Level 1 | 4 |
| ESL 052 | English as a Second Language Level 2 | 4 |
| ESL 055 | English as a Second Language: Grammar | 2 |
| ESL 060 | English as a Second Language: Pronunciation | 2 |

Students may be advised to take other foundations courses not listed above to meet specific program preparation needs.

The Academic Foundations program also offers a Learning Lab in Rooms 254 and 258 of the Main Building (Clifton Campus). This computer laboratory provides students the opportunity to use supplemental instructional materials to sharpen their basic skills while reinforcing their ability to learn independently.

ESL Courses

International students who successfully complete courses in English as a Second Language (ESL) are considered to have completed Academic Foundations writing and reading courses. Additional foundations writing and reading courses are not required.

Tutoring Center

Individual or group tutoring is available to Cincinnati State students in a variety of subject areas and is free of charge. Instruction is provided by qualified faculty or by student tutors who are recommended by faculty. All tutors receive training in methods, policies, and practices aimed at promoting independent learning.

Students may request a tutor through the Tutoring Center (http://www.cincinnatistate.edu/real-world-academics/student-services/tutoring-services?searchterm=tutoring) in Room 261 of the Main Building (Clifton Campus). Tutoring appointments can also be requested online after logging in to MyCState. Drop-in tutoring and tutoring by appointment are available for students who need assistance. The Tutoring Center has two locations in the Main Building on Clifton Campus: Room 261 and Room 228B.

Writing Center

The Writing Center (http://www.cincinnatistate.edu/real-world-academics/student-services/writing-center) in Room 235 of the Main Building (Clifton Campus) offers instructional support at no charge to any Cincinnati State student whose coursework includes written

assignments. Staff members are qualified, experienced writing instructors who provide guidance to students in all facets of the writing process. Writing Center assistance is available by appointment and on a walk-in basis

Academic Advising

Academic advising assists students in reaching their academic and career goals at Cincinnati State. Program chairs, academic advisors, other faculty members, and some staff members are assigned to guide students through activities such as:

- · Setting academic goals
- · Developing educational plans
- · Selecting courses
- · Providing information on transfer credits
- · Understanding and meeting requirements for graduation
- · Clarifying career and personal goals
- · Explaining academic policies and procedures
- · Addressing academic challenges
- Making appropriate referrals to campus support services

Distance and Online Learning

Online Learning

Visit www.cincinnatistate.edu/online on the Cincinnati State website for the most current information about online learning.

Cincinnati State currently offers over 200 courses either totally or partially online. Online courses at Cincinnati State offer students a choice in how to complete coursework.

- Totally online courses (marked WEB on course schedules) have no on-campus meetings.
- Partially online courses (marked HYB on course schedules) have most of the educational activities online, but also include some required on-campus meetings.

Either choice gives students flexibility to include college classes in a busy lifestyle.

Success in Online Learning

Successful online students exhibit the following traits:

- self-disciplined
- self-motivated
- · good time management skills
- · independent learners
- · effective readers and writers
- · effective problem solvers

Success in online classes also requires students to be comfortable using basic features and functions of a computer, such as:

- sending and receiving email
- downloading software
- attaching and sending documents
- · resolving simple technology issues

· using word processing software

Some online courses require students to use other computer skills also

Online Learning Definitions

Online/web-based (virtual): Courses that contain all online activities, with no scheduled campus meetings. However, in some online courses, students may be required to take tests on campus or at a specially-arranged proctored location. These classes are identified in the registration process with the code WEB.

Hybrid: Courses that contain more than 70% online activities and also require regularly-scheduled on-campus meetings, which could include (for example) completing lab activities or delivering speeches. Testing may occur online, on campus, or at specially-arranged proctored sites. These classes are identified in the registration process with the code HYB.

Web-enhanced: Courses that are delivered primarily on-campus with required in-person attendance, but have some assignments, activities, discussions, and/or testing available online. These courses are not considered online learning courses.

Orientation for Cincinnati State Online Courses

Cincinnati State offers an Online Orientation Workshop for students considering this delivery method. The workshop includes online activities that students work on at their own pace, and should take about one to three hours to complete. For instructions on how to enroll, go to Online Orientation Workshop (https://www.cincinnatistate.edu/contact-us/campuses/online/orientation) on the College website. After enrolling in the workshop, you will:

- use the Blackboard online course delivery tools
- · identify policies and procedures that apply to online students
- use College resources that support online students
- · recognize characteristics of successful online students

Taking Exams in Online Courses

In most online courses, students take exams and quizzes online. However, some online learning courses may require students to come to campus for testing, or find a qualified proctor or testing center. External proctors must sign an agreement with the College in order to proctor an exam. Contact your instructor for further information.

Student Support Services for Online Learning

Library: Online students can access available electronic resources through the Johnnie Mae Berry Library, including full text articles, ebooks and streaming videos from the library's homepage at https://www.cincinOKnatistate.edu/library (https://www.cincinnatistate.edu/library). Students will be prompted to provide their last name and student ID number when logging in to databases and e-book collections.

Specific Library Guides have been created for Online Learning courses with information on accessing research materials and are available at http://library.cincinnatistate.edu/guides. Students can call (513)

569-1606 or use the chat feature from the Library homepage for online assistance or to speak to a Reference Librarian during Library open hours.

Bookstore: Cincinnati State's Follett Bookstore provides online access to order books, supplies, and materials. Students may order textbooks and merchandise from the bookstore's website, https://www.bkstr.com/cincinnatistatetechstore/home. Online students may have materials shipped to them, or if they are near the campus, may pick up materials at the bookstore.

Many Cincinnati State instructors use customized versions of textbooks which are not available at other online retailers. Cincinnati State's bookstore is the only place to obtain these materials. Check with your instructor to determine if customized materials need to be purchased.

Technical Help Desk: The College Help Desk can assist online students with technical problems related to their online learning courses. Live Help Desk assistance is available at (513) 569-1234, option 1, during the following times:

Monday through Thursday - 7 a.m. to 10 p.m. Friday - 7 a.m. to 7 p.m. Saturday - 7 a.m. to 2:30 p.m.

Help Desk hours may be reduced during College breaks and/or Summer Semester

Help Desk assistance is available via email at itshelpdesk@cincinnatistate.edu. Students emailing the Help Desk can expect a response within 24 hours.

Academic Advising for Online Students: At Cincinnati State, students are assigned an academic advisor based on their program choice. Advisors for online students are the same as those advising students who complete non-online classes. Students should consult frequently with their advisor—in person, by email, or via phone—to ensure success in achieving academic goals. Students may contact their academic advisor through their division office.

Registration: Registration for all Cincinnati State courses is available online. For available online courses, use your Cincinnati State login to view courses on MyServices. Online courses are noted in registration information with the codes WEB (fully-online course) or HYB (hybrid course). Online students are encouraged to view the comments section for each hybrid course for information about required oncampus meetings and/or proctored assessments.

Cost for online courses: Tuition for online courses is the same as oncampus courses. Web-based courses are assessed an additional fee of ten dollars (\$10) per credit hour.

How to get started: Applying for admission to Cincinnati State to take online classes is easy and convenient. The admission process is completely online and open to everyone. The admissions process is the same for students taking online courses and those taking traditional courses.

To begin your application, visit the Admission Overview (http://www.cincinnatistate.edu/admission-financial-aid/admissions/admission-process) page on the College website.

Programs and Courses

To view the list of degrees and certificates available fully online, please visit the Online Learning Programs (https://www.cincinnatistate.edu/online-learning-programs) section of the College website.

Program chairs and academic advisors can provide more information about the online courses that are available as options for completing requirements for other degree and certificate programs.

Courses Available for Credit by Cincinnati State Exam (Test Out)

For additional information on earning credit through internal exams, see "Advanced Standing Credit (p. 189)" in the Academic Policies and Procedures section of this Catalog.

Business Technologies

No test outs offered

Center for Innovative Technologies

| Course | Course Title | Monitor |
|----------|----------------------------------|-----------|
| BMT 161 | Biomedical Instrumentation 1 | R. Whaley |
| BMT 262 | Biomedical Instrumentation 2 | R. Whaley |
| EET 101 | Electronic Fundamentals 1 | R. Whaley |
| EET 121 | Digital Systems 1 | R. Whaley |
| EET 122 | Digital Systems 2 | R. Whaley |
| EET 131 | Circuit Analysis 1 | R. Whaley |
| EET 132 | Circuit Analysis 2 | R. Whaley |
| ESET 220 | Microprocessor Systems | R. Whaley |
| ESET 251 | Electronics | R. Whaley |
| MET 111 | Manufacturing Processes 1 | M. DeVore |
| MET 131 | MET Computer Aided Drafting 1 | M. DeVore |

Health and Public Safety

| Course | Course Title | Monitor |
|---------|---|----------|
| HIM 105 | Legal Aspects of Health Info. Mgmt. | C. Kneip |
| HIM 115 | Clinical Abstracting of Health Data | C. Kneip |
| HIM 125 | CPT Coding | C. Kneip |
| HIM 130 | International Classification of Diseases (ICD) Coding | C. Kneip |
| MCH 100 | Healthcare Informatics | L. Lucas |
| MCH 101 | Medical Terminology 1 | L. Lucas |
| MCH 102 | Medical Terminology 2 | L. Lucas |
| MCH 104 | Accelerated Medical Terminology | L. Lucas |

| MCH 110 | Orientation to Health Records | L. Lucas |
|---------|-------------------------------------|----------|
| MCH 120 | Health Unit Coordinator Training | L. Lucas |
| MCH 138 | Patient Care Skills | L. Lucas |

Humanities and Sciences

| Humanities and Sciences | | | |
|-------------------------|---|-------------|--|
| Course | Course Title | Monitor | |
| ECO 105 | Principles of Microeconomics | S. Salehi | |
| ECO 110 | Principles of Macroeconomics | S. Salehi | |
| ENG 101 | English Composition | A. Thompson | |
| ENG 104 | Composition and Technical Communication | A. Thompson | |
| ENG 105 | Composition and Business Communication | A. Thompson | |
| LBR 105 | Introduction to Labor & Employee Relations | P. Davis | |
| PSY 110 | Introduction to Psychology | H. Hatchett | |
| SOC 105 | Introduction to Sociology | H. Hatchett | |
| SOC 115 | Marriage and the Family | H. Hatchett | |
| SOC 140 | Sociology of Gender | H. Hatchett | |
| SPN 101 | Elementary Spanish 1 | R. Moreno | |
| SPN 102 | Elementary Spanish 2 | R. Moreno | |
| SPN 200 | Spanish Conversation & Composition | R. Moreno | |
| SPN 201 | Intermediate Spanish 1 | R. Moreno | |
| SPN 202 | Intermediate Spanish 2 | R. Moreno | |
| MAT 120 | Technical Mathematics | M. House | |
| MAT 121 | Technical Algebra and Geometry with Statistics | M. House | |
| MAT 125 | Algebra and Trigonometry | M. House | |
| MAT 126 | Functions and Calculus | M. House | |
| MAT 131 | Statistics 1 | M. House | |
| MAT 132 | Statistics 2 | M. House | |
| MAT 151 | College Algebra | M. House | |
| MAT 152 | Trigonometry | M. House | |
| MAT 153 | Pre-Calculus | M. House | |
| MAT 161 | College Algebra for Diagnostic Medical Sonography | M. House | |
| MAT 215 | Business Calculus | M. House | |
| MAT 251 | Calculus 1 | M. House | |
| MAT 252 | Calculus 2 | M. House | |
| | | | |

3

Transfer Module

The State of Ohio has developed a statewide policy to help students transfer their credits for courses completed at one Ohio public college or university to another Ohio institution. The Ohio Transfer Module (p. 174) policy statement is published elsewhere in this Catalog.

The Cincinnati State Transfer Module consists of 36 semester credit hours that transfer to any Ohio public two-year or four-year college or university. Categories for courses in the Cincinnati State Transfer Module are:

| English Composition | 6 |
|----------------------------|----|
| Oral Communication | 3 |
| Mathematics | 3 |
| Social/Behavioral Sciences | 6 |
| Arts/Humanities | 6 |
| Natural/Physical Sciences | 6 |
| Transfer Module Electives | 6 |
| Total Credits | 36 |

Students earning the Transfer Module at Cincinnati State select specific courses (listed below) from the above-listed categories, in consultation with an academic advisor.

Students who graduate from Cincinnati State with the degree Associate of Arts (AA) or Associate of Science (AS) will complete all Transfer Module requirements. Students earning the AA or AS degree also are required to complete additional courses selected from the Transfer Module categories. The full curriculum requirements for AA and AS degrees are published elsewhere in this Catalog.

Students who graduate from Cincinnati State with the degree Associate of Applied Business, Associate of Applied Science, Associate of Individualized Study, or Associate of Technical Study may complete some Transfer Module courses that are required for their degree, but will not automatically complete all Transfer Module requirements. These students may choose to take additional courses, beyond those required for their degree, in order to complete the Transfer Module.

Students who are completing the Transfer Module, either as part of an AA or AS degree or as an addition to another degree, should consult with their academic advisor to ensure that courses selected are appropriate for the institution and the degree program that the student plans to pursue after completing studies at Cincinnati State.

The following courses are approved by the Ohio Department of Higher Education to meet the requirements for the Cincinnati State Transfer Module:

English Composition

| ENG 101 | English Composition 1 | 3 |
|-------------------|---|---|
| Select one of the | following courses: | |
| ENG 102 | English Composition 2: Contemporary Issues | 3 |
| ENG 103 | English Composition 2: Writing about Literature | 3 |
| ENG 104 | English Composition 2: Technical Communication | 3 |
| ENG 105 | English Composition 2: Business Communication | 3 |

Oral Communication

COMM 110 Public Speaking

Mathematics

Note: In addition to completing Academic Foundations math classes indicated by college placement test results, students must complete a prerequisite math class before enrolling in any of the Transfer Module math classes listed.

Select one of the following courses:

| MAT 105 | Quantitative Reasoning | 3 |
|---------|------------------------|---|
| MAT 131 | Statistics 1 | 3 |
| MAT 132 | Statistics 2 | 3 |
| MAT 151 | College Algebra | 4 |
| MAT 152 | Trigonometry | 4 |
| MAT 153 | Pre-Calculus | 6 |
| MAT 215 | Business Calculus | 6 |
| MAT 251 | Calculus 1 | 5 |
| MAT 252 | Calculus 2 | 5 |
| MAT 253 | Calculus 3 | 5 |

Social/Behavioral Sciences

Select two of the following courses:

PSY 210

| Select two of the | following courses: | |
|------------------------|---|---|
| Economics | | |
| ECO 105 | Principles of Microeconomics | 3 |
| ECO 110 | Principles of Macroeconomics | 3 |
| Geography | | |
| GEO 105 | World Regional Geography: the Americas, Europe, an | 3 |
| GEO 110 | World Regional Geography: Asia, Africa, and the Middle East | 3 |
| GEO 115 | Cultural Geography | 3 |
| History | | |
| HST 101 | World History: First Civilizations to 1500 | 3 |
| HST 102 | World History: 1500 to Present | 3 |
| HST 111 | American History: Early Settlers to 1877 | 3 |
| HST 112 | American History: 1877 to Present | 3 |
| HST 121 | African American History: Origins to 1877 | 3 |
| HST 122 | African American History: 1877 to Present | 3 |
| HST 130 | History of Africa | 3 |
| HST 161 | Western Civilization: Origins to 1648 | 3 |
| HST 162 | Western Civilization: 1648 to Present | 3 |
| Labor Relations | | |
| LBR 105 | Introduction to Labor and Employee Relations | 3 |
| Political Science | • | |
| POL 101 | Introduction to American Government | 3 |
| POL 102 | Introduction to Comparative Governments and Politics | 3 |
| Psychology | | |
| PSY 110 | Introduction to Psychology | 3 |
| PSY 200 | Abnormal Psychology | 3 |
| PSY 205 | Child Development | 3 |

Adolescent Development

| PSY 215 | Adult Development | 3 |
|-----------|---------------------------|---|
| PSY 220 | Social Psychology | 3 |
| PSY 225 | Lifespan Development | 3 |
| Sociology | | |
| SOC 105 | Introduction to Sociology | 3 |
| SOC 115 | Marriage and the Family | 3 |
| SOC 130 | Sociology of Aging | 3 |
| SOC 140 | Sociology of Gender | 3 |

Arts/Humanities

Select two of the following courses:

| Art | | |
|-----------------|---|---|
| ART 110 | Introduction to Art | 3 |
| ART 111 | Art History: Ancient to Medieval Periods | 3 |
| ART 112 | Art History: Renaissance to the Present | 3 |
| Communication | ı | |
| COMM 130 | Introduction to Film Studies | 3 |
| Literature | | |
| LIT 200 | Introduction to Literature | 3 |
| LIT 210 | The Short Story | 3 |
| LIT 220 | Poetry | 3 |
| LIT 230 | Drama | 3 |
| LIT 240 | The Novel | 3 |
| LIT 251 | American Literature to 1865 | 3 |
| LIT 252 | American Literature since 1865 | 3 |
| LIT 255 | African American Literature | 3 |
| LIT 261 | British Literature: Medieval Period to 1800 | 3 |
| LIT 262 | British Literature: 1800 to Present | 3 |
| LIT 265 | Shakespeare | 3 |
| LIT 270 | Children's Literature | 3 |
| LIT 280 | Science Fiction | 3 |
| LIT 285 | Women Writers | 3 |
| Music | | |
| MUS 101 | Music History: Middle Ages to Late 19th Century | 3 |
| MUS 102 | Music History: 20th Century | 3 |
| MUS 105 | Music History: African-American Music | 3 |
| MUS 110 | Jazz Appreciation | 3 |
| MUS 115 | Rock and Pop Music | 3 |
| MUS 120 | World Music | 3 |
| Philosophy | | |
| PHI 105 | Introduction to Philosophy | 3 |
| PHI 110 | Ethics | 3 |
| Religious Studi | es | |
| REL 105 | World Religions | 3 |
| Theatre | | |
| THE 105 | Theater Appreciation | 3 |
| THE 110 | History of Theater | 3 |

Natural/Physical Sciences

Select two of the following courses:

| Biology | | |
|---------|------------------------|---|
| BIO 111 | Biology: Unity of Life | 4 |

| BIO 112 | Biology: Diversity of Life (approval pending) | 4 |
|-----------------------|--|---|
| BIO 131 | Biology 1 | 5 |
| BIO 132 | Biology 2 | 5 |
| BIO 151 | Anatomy and Physiology 1 | 4 |
| BIO 152 | Anatomy and Physiology 2 | 4 |
| Chemistry | | |
| CHE 105 | Chemistry for Consumers | 3 |
| CHE 110 | Fundamentals of Chemistry | 4 |
| CHE 111 | Bio-Organic Chemistry | 4 |
| CHE 115 | General, Organic, and Biological Chemistry | 4 |
| CHE 121 & CHE 131 | General Chemistry 1 and General Chemistry 1 Lab | 5 |
| CHE 122 | General Chemistry 2 | 5 |
| & CHE 132 | and General Chemistry 2 Lab | |
| CHE 201 & CHE 211 | Organic Chemistry 1 and Organic Chemistry 1 Lab | 5 |
| CHE 202 & CHE 212 | Organic Chemistry 2 and Organic Chemistry 2 Lab | 5 |
| Environmental Science | | |
| EVS 110 | Environmental Science: Conservation and Cleanup | 4 |
| EVS 120 | Environmental Geology | 4 |
| EVS 130 | Environmental Science: Ecology and Ecosystems | 4 |
| Physical Science | | |
| PSC 105 | Astronomy | 4 |
| PSC 110 | Earth Science | 4 |
| PSC 115 | Energy | 3 |
| Physics | | |
| PHY 151 | Physics 1: Algebra and Trigonometry-Based | 4 |
| PHY 152 | Physics 2: Algebra and Trigonometry-Based | 4 |
| PHY 201 | Physics 1: Calculus-Based | 5 |
| PHY 202 | Physics 2: Calculus-Based | 5 |
| | | |

Associate of Individualized Study

Cincinnati State offers the Associate of Individualized Study (AIS) degree to meet unique career education needs for students whose career objectives cannot be achieved through one of the existing associate's degree programs offered by the College.

A student who wishes to be considered for admission to an AIS program must:

- Meet with the program chair for the Associate of Arts/Associate
 of Science degree. This meeting is used to make a preliminary
 determination of whether the student's request for an AIS program
 is likely to be approved. If approval seems likely, an academic
 advisor for the AIS program is assigned.
- Consult with the assigned academic advisor, who assists the student in planning the curriculum for the AIS program. This curriculum must include no fewer than 60 total credits, and must include all College-wide graduation requirements.
- Complete all College admissions requirements, as described in the Admissions Information (p. 171) section of this Catalog.

4. Write and deliver to the assigned academic advisor a justification of the proposed degree program, including a statement of career goals and an explanation of why another associate's degree program would not be appropriate.

The student's academic advisor presents the proposed AIS curriculum to the College's Academic Policies and Curriculum Committee (APCC) for approval. The APCC approves or denies the AIS program proposal. The APCC may seek additional information and/or suggest modifications to the proposed AIS curriculum prior to taking action.

If the proposed AIS is approved, the student is admitted to the AIS program. If the proposed AIS is denied, the student may wish to apply to another associate's degree program.

Associate of Technical Study

Associate of Technical Study – Type A

The Associate of Technical Study (ATS) – Type A degree program allows a student to meet unique career objectives by receiving college credit for qualified non-college training programs, and combining this training with courses from two or more existing Cincinnati State associate's degree programs.

A student who wishes to be considered for admission to an ATS - Type A program must follow the steps outlined in this catalog for the Associate of Individualized Studies (AIS) degree (http://catalog.cincinnatistate.edu/academicdivisionsanddegreeampcertificateprograms/associateofindividualizedstudy). The proposed ATS - Type A degree program must be approved by the College's Academic Policies and Curriculum Committee (APCC).

Associate of Technical Study - Type B

The Associate of Technical Study (ATS) – Type B degree program allows the College to develop associate's degree programs in partnership with professional organizations or businesses that provide specific training programs for their members or employees. The training program is examined by a College review committee to determine if it qualifies for inclusion in an ATS – Type B program. If qualified, the training program is awarded a set number of college credits. Additional components of the proposed degree program are also determined by the review committee.

When implemented, an ATS – Type B program accommodates students who have completed educational programs that are outside traditional college coursework, and allows these students to supplement their professional training with the additional enriching components of a college associate's degree program. The proposed ATS - Type B degree program also must be approved by the College's Academic Policies and Curriculum Committee (APCC).

Some currently-available ATS – Type B programs are identified within the academic division sections of this Catalog.

A student who wishes to be considered for admission to an ATS - Type B program must follow the steps designated by the academic division that offers the ATS - Type B program.

General Information*

Cincinnati State Technical and Community College

Cincinnati State Technical and Community College is a public, twoyear college operated under the authority of the Ohio Department of Higher Education and governed by a nine-member Board of Trustees appointed by the Governor of the State of Ohio.

The College currently offers more than 130 associate's degree programs, majors, and certificate programs at its main campus in Clifton and at locations in Evendale, Harrison, Middletown and elsewhere in Greater Cincinnati, and offered online. In addition to its college credit-bearing academic and technical programs, the College's Workforce Development Center offers continuing education opportunities through short courses, seminars, and on-site training programs for businesses and industries in the region.

Cincinnati State is accredited by the Higher Learning Commission (hlcommission.org (https://www.hlcommission.org)), a regional accreditation agency recognized by the U.S. Department of Education (230 South LaSalle Street, Suite 7-500, Chicago, IL 60604, phone 800-621-7440).

The College also holds numerous programmatic accreditations, listed in the Accreditation and Memberships (p. 166) section of this catalog.

Overview

Collaborative Relationships

Cincinnati State has established academic partnerships with high schools, colleges, universities, and employers throughout the region.

Through Cincinnati State's relationship with the Ohio Department of Higher Education, the College maintains structured pathways to connect eligible high school students and graduates with college courses and degree and certificate programs. These college programs help the state achieve the goal of improving the educational attainment of Ohio citizens.

- Ohio's College Credit Plus program enables eligible high school students to take college courses while still in high school.
 Cincinnati State delivers many college courses at local high schools through a network of over 40 partner public and private high schools.
- Additionally, to strengthen pathways for students participating in career technical programs, Cincinnati State recognizes the state's Career-Technical Assurance Guides (CTAGs) which allow high school graduates to obtain college level transfer credit for knowledge and skill acquired in designated high school classes.

Cincinnati State also has established articulation agreements with the University of Cincinnati, Mount St. Joseph University, Northern Kentucky University, Xavier University, Miami University, and many other institutions to ease the transfer of graduates to specific degree programs in those institutions.

Cincinnati State is a member of the Greater Cincinnati Collegiate Connection (formerly the Greater Cincinnati Consortium of Colleges and Universities). This membership allows students, under certain conditions, to take courses not offered at their home institution at any of the 13 member institutions. Students who would like more information about this program should contact the Office of the Registrar on Clifton Campus or by email at registraroffice@cincinnatistate.edu.

Cincinnati State also has a cross-registration agreement with the Army and Air Force ROTC at the University of Cincinnati. Army and Air Force personnel teach General Military Training classes. Enrollment in these classes entails no service obligation, and books and uniforms for the courses are provided free to students. Participants attend ROTC classes and drill periods on the University of Cincinnati's campus while attending academic classes at Cincinnati State. Details are available in the Office of Veteran Student Affairs at Cincinnati State, Room 135 Main Building, Clifton Campus.

Cooperative Education

Since its founding in 1969, Cincinnati State has integrated work experience (typically co-op employment or clinical rotations) with academic coursework. Cincinnati State's consistently high graduate employment rate reflects the College's commitment to providing quality education enriched by on-the-job training. Students encounter "real-world" job demands, helping to clarify their career choices and promote responsibility in the workplace. Most co-op experiences are paid placements that permit students to earn while learning, and thus defray the total cost of their education. The College has been recognized nationally for its extensive cooperative education program. More than 500 employers provide placements for degree-seeking Cincinnati State students who devote one or more semesters of their program of study to applying the knowledge they have acquired in the lab and in the classroom.

Equal Opportunity

Cincinnati State is committed to a policy of equal educational opportunities for all persons regardless of race, age, handicap, sexual orientation, national origin, or gender. This policy is adopted as a matter of law and as a matter of educational policy consistent with the goals and purposes of the College.

The College also adheres to a policy of equal employment opportunity and affirmative action to end any illegal pattern of discrimination and to overcome the effects of past discrimination. Cincinnati State is also committed to serving the region's Armed Forces Veterans.

Institutional Values

As a college community:

- We embrace experiential and lifelong learning, personal growth, and employability.
- · We create and promote a civil and respectful environment.
- We anticipate and effectively respond to changing stakeholder expectations.
- · We honor the diversity of people and ideas.

Mission

Cincinnati State Technical and Community College provides studentfocused, accessible, high-quality technical and general education, academic transfer, experiential and cooperative education, and workforce development.

Student-Centered Quality Education

Cincinnati State is known for its dedication to teaching and its studentcentered philosophy and practices. Small class sizes, an extensive academic foundations program, a free tutoring program, counseling, advising, and library services provide the kinds of academic support needed for success for adult students and recent high school graduates. Both theory and practice are stressed through appropriate classroom, laboratory, and cooperative/clinical education experiences.

Cincinnati State faculty members take pride in the personal attention afforded each student, and every Cincinnati State graduate is a reflection of the College's commitment to developing human potential, one student at a time.

Vision

Cincinnati State will be the technical and community college of choice in our region, nationally recognized for academic excellence, cooperative education, and workforce development.

History

History of Cincinnati State

Cincinnati State can trace its origins to the Cincinnati Cooperative School of Technology (CCST), a two-year technical institute for high school graduates that was established by the Cincinnati Board of Education in 1966. The function of the school was to train technicians in a program combining college-level classroom instruction and cooperative work experience. This program operated in a portion of the facility at 3520 Central Parkway, which at the time was also the home to Courter Technical High School and former home to Central High School. In its first year, the college offered only four degree programs.

In 1969, the State of Ohio established Cincinnati Technical Institute to serve the post-secondary public technical education needs of the area. Clifford R. House was named first president of the college. The following year, the college entered into a contract with the Cincinnati Board of Education to purchase the Courter Technical High School property, where the College is located today. The name of the college was changed to Cincinnati Technical College (CTC) in 1972. Courter Tech continued to share the facility until the high school ended operations at the site in 1974.

In 1976, Frederick Schlimm succeeded Clifford House to become the second president of the institution, and over the next decade the College grew steadily. During Schlimm's tenure (1976-89), enrollment increased from 2,000 to more than 4,000 students, and the number of programs expanded from 35 to 45.

Dr. James Long became the third President of the college in 1990, and enrollment exceeded 5,000 students for the first time that year. At his recommendation, the Cincinnati Technical College Board of Trustees on July 27, 1993, voted to convert CTC to a state technical and community college. The name was officially changed to Cincinnati State Technical and Community College on September 1, 1994.

During the same month, the Health Professions Building (HPB) and Ludlow Parking Garage were opened, coinciding with the College's 25th anniversary. In May 1995, the State of Ohio approved the purchase of Cincinnati West Airport in Harrison, Ohio, to serve the

aviation program at the College. An academic facility opened in 1998 at the airport.

On March 6, 1998, Dr. Ron Wright was formally inaugurated as the fourth president of the College. During his tenure, the College continued to grow. In 2000, the College purchased the Workforce Development Center (WDC) in Evendale to serve as a site for corporate training programs including computer skills, hazardous materials and industrial maintenance training.

In September 2003, a second parking garage (Central Parkway Garage) was opened to serve the increasing student population, which hit the 8,000 mark earlier that year. The Advanced Technology & Learning Center (ATLC) opened in November 2004, coinciding with the College's 35th anniversary. The building houses the Midwest Culinary Institute, multimedia production studios, information technologies labs, student activities areas and other functions, and contains more than 200,000 square feet.

In 2007, Dr. John Henderson was appointed Interim President. The next year, Cincinnati State introduced a Renewable Energy and Energy Efficiency major. In April 2009, the College received a significant grant from the U.S. Department of Labor in order to expand the program. In September 2009, the College celebrated its 40th anniversary as enrollment surpassed 10,000 students for the first time.

In August 2010, the Board of Trustees appointed Dr. O'dell M. Owens to succeed Dr. Henderson. Dr. Owens – who at the time of his appointment was the Hamilton County Coroner – began his duties at Cincinnati State on September 1.

In November 2010 Cincinnati State set another enrollment record, with 11,421 total students. In April 2012 College officials signed an agreement with a private partner to rehabilitate an office building in downtown Middletown, Ohio, to serve as the base for a campus. The Middletown Campus opened August 29, 2012. That date also marked the start of the College's conversion to a semester-based academic calendar, ending its previous system of five academic terms per year.

In September 2014 the College marked its 45th anniversary with a week of Founders Days activities, including recognition of the faculty and staff members who served when the College began.

After Dr. Owens stepped down in September 2015, the Board of Trustees named then-Provost Dr. Monica Posey to serve as Interim President

On June 13, 2016, the Board formally appointed Dr. Posey to become the sixth President of the College.

Today, the College offers more than 130 associate degree and certificate programs through its four academic divisions and the Workforce Development Center. Cincinnati State will celebrate its 50th anniversary as a higher education institution in 2019.

Governance

Board of Trustees

Mr. Mark D. Walton, *Chair*Vice President & Community Affairs Director
Greater Cincinnati
Fifth Third Bank

Term expires: August 31, 2020

Greg Battle

President/CEO

Lean Continuous Improvements Term expires: August 31, 2022

Manuel Chavez III

Partner

Chavez Properties

Term expires: August 31, 2018

Justin Howe

Senior Human Resources Manager for Digital Technology

General Electric

Term expires: August 31, 2022

Rajbir Minhas, M.D.

Physician

Mercy Orthopedic and Spine/Pain Associates

Term expires: August 31, 2018

Mr. Robert Ringel

Vice President, Legal and Assistant Corporate Secretary

Duke Energy Corporation Term expires: October 31, 2020

Mr. John Silverman

Managing Principal Midland Atlantic

Term expires: October 31, 2020

Mr. George Vincent

Attorney

Dinsmore & Shohl

Term expires: October 31, 2018

Faculty Senate

President: Ryan Shadle, Humanities & Sciences

Vice President: Lesli Rice, Business

Recording Secretary: Ralph Whaley, Center for Innovative

Technologies

Elections Secretary: Marianne Niese, Satellite Campuses

Julianna Johns, Health & Public Safety
Dave Killen, Center for Innovative Technologies

Janice Lockett, Health & Public Safety Stephanie Stafford, Humanities & Sciences

[Vacant], Library/Enrollment & Student Development

Ex Officio, AAUP President: Pam Ecker Ex Officio, Adjunct Faculty: Cathy McKee

Accreditation and Memberships

General Accreditation

- · Ohio Department of Higher Education
- Division of Career-Technical Education, Ohio Department of Education
- Higher Learning Commission (hlcommission.org (https:// www.hlcommission.org)), a regional accreditation agency recognized by the U.S. Department of Education (230 South

LaSalle Street, Suite 7-500, Chicago, IL 60604, phone 800-621-7440).

Professional Accreditations

- Accreditation Council for Education in Nutrition and Dietetics
- Accreditation Council for Occupational Therapy Education
- · Accreditation Commission for Education in Nursing
- Accreditation Review Council on Education in Surgical Technology and Surgical Assisting
- American Council for Construction Education
- Accreditation Council for Education in Nutrition and Dietetics
- American Culinary Federation Educational Foundation
- · Association of Nutrition & Foodservice Professionals
- Commission on Accreditation of Allied Health Education Programs
- Commission on Accreditation for Health Informatics and Information Management Education
- · Commission on Accreditation for Respiratory Care
- · Engineering Technology Accreditation Commission of ABET
- Federal Aviation Administration Approved Aircraft Maintenance Technician School
- International Association for Continuing Education and Training
- Medical Assisting Education Review Board
- National Accrediting Agency for Clinical Laboratory Sciences
- National Association for the Education of Young Children
- National Association of Landscape Professionals
- National Automotive Technicians Education Foundation, Inc.
- Ohio Department of Education, Associate PreK Education Licensure Program
- Ohio Department of Public Safety, Department of Emergency Medical Services
- · Ohio Division of Real Estate
- · Ohio State Board of Nursing

Memberships

- Academic Quality Improvement Project
- · Academy of Legal Studies in Business
- · Academy of Nutrition and Dietetics
- American Association of Collegiate Registrars and Admission Officers
- · American Association of Community Colleges
- American Culinary Federation
- American Society of Safety Engineers (ASSE)
- American Society of Allied Health Professionals
- American Technical Education Association
- · Association for the Promotion of Campus Activities
- · Association of Food and Nutrition Professionals
- Brewers Association
- CincinnatiUSA Chamber of Commerce
- Consortium of College and University Media Centers (CCUMC)
- · Continuous Quality Improvement Network
- Cooperative Education Association
- Enterprise Ohio Network
- Greater Cincinnati Consortium of Colleges and Universities

- InfoComm International
- Lambda Beta Honor Society for Respiratory Care
- Midwest Cooperative Education & Internship Association
- Midwest Institute for International/Intercultural Education
- National Association of College Admission Counseling
- · National Association of College and University Business Officers
- National Association of Landscape Professionals
- National Association of Student Financial Aid Administration
- National Council of Student Development
- National Council on Black American Affairs
- · National Junior College Athletic Association
- · National League for Nursing
- National Network of Health Career Programs in Two-Year Colleges
- North American Council of Automotive Teachers
- · Northern Kentucky Chamber of Commerce
- · Ohio Association of Community Colleges
- · Ohio Association of Collegiate Registrars and Admission Officers
- Ohio Craft Brewers Association
- · Ohio Mathematics Association of Two-Year Colleges
- · Ohio Nursery and Landscape Association
- Ohio Partnership for Excellence (Ohio Baldridge Program)
- OhioLINK
- OHIONET
- · Organization for Associate Degree Nursing
- · Southwestern Ohio Council for Higher Education
- · Southwest Ohio Neighboring Libraries
- U.S. Green Building Council
- · World Affairs Council
- World Association of Cooperative Education

Facilities

Use of College Facilities

Students presenting a SurgeCard (p. 170) may use facilities such as the gymnasium, game room, fitness center, library, auditorium, and meeting rooms. Such use is restricted to hours set aside for student use for free time recreation. These hours will not conflict with previously scheduled events, and may be subject to change because of scheduling of intramurals, athletics, community use, or other purposes.

Students or student groups may lease on-campus facilities through the Facilities Office, phone (513) 569-4123 or email eventscheduling@cincinnatistate.edu. The use of facilities is outlined in the Facility Usage and Rental Guidelines (http://www.cincinnatistate.edu/about/administration/facilities) on the College website

Bakery Hill

Bakery Hill is a retail bakery on the second floor of the Advanced Technology & Learning Center (ATLC), Clifton Campus. Bakery Hill is operated by students and instructors at the College on both an educational and entrepreneurial basis. For

more information about Bakery Hill, phone (513) 569-4697 or email bakeryhill@cincinnatistate.edu.

Bookstore

The Cincinnati State Bookstore is located in Room 134 of the Advanced Technology & Learning Center (ATLC), Clifton Campus. A complete supply of new texts and a limited supply of used books are available, covering all the courses offered at the College. A textbook rental program is also available for certain courses. The store also carries classroom supplies, calculators, and course-related equipment and supplies, as well as Cincinnati State apparel and gifts.

Used books are purchased by the bookstore throughout the year; however, financial aid regulations apply to some sales of used books. Contact the store for additional information about the buyback program.

Books for which an exchange or refund is requested must be in resalable condition and accompanied by the original receipt. Full refunds will be granted during the first two weeks of classes each semester. If a student drops a course and wishes a refund within the established time frame, the student must show bookstore personnel a copy of the drop/add form.

Regular hours of the store are Monday, 8 a.m. to 6:30 p.m., Tuesday through Thursday, 8 a.m. to 6 p.m., and Friday 8 a.m. to 2 p.m. Hours are extended during the beginning and end of each semester.

Forms of payment accepted include financial aid (during assigned dates), cash, check (with photo I.D.), Visa, MasterCard, Discover, American Express (cardholder must be present), and gift cards. All forms of payment except cash or check may also be used for online purchases on the Bookstore website www.Cincystshop.com (http://www.bkstr.com/Home/10001-10677-1?demoKey=d).

For more information about the Cincinnati State Bookstore, phone (513) 569-1507 or email cincist@bkstr.com.

Child Care (Mallory Early Learning Center)

The William L. Mallory Early Learning Center is located on the fourth floor of the Main Building (Clifton Campus) and has a learning laboratory on the first floor of the Main Building. It provides outstanding childcare on Cincinnati State's campus while serving as a learning lab for Cincinnati State students in the Early Childhood Education program.

The Mallory Center daytime program is designed for children ages three months to five years who are not yet eligible for kindergarten. Priority is given to students and staff of the College, but the Center also serves families from the surrounding community.

The Mallory Center offers a full-time, year-round program operated Monday through Friday, 7 a.m. to 5:30 p.m. The Mallory Center is closed when the College is closed. During the summer, the Center also provides experiences for school-age children.

The Mallory Center participates in the USDA food program, providing breakfast, lunch, and snack, thus supplying two-thirds of a child's daily needs.

Parents are welcome and encouraged to visit their children at any time. There are observation booths for most of the classrooms if parents

wish to observe without being seen. Parents are also welcome to help in the classroom by reading books, eating lunch, or going on field trips.

All student-child interactions are guided by the faculty of Cincinnati State's Early Childhood Education program. Center teaching staff members are selected for their commitment to providing the best experiences for children, and their ability to guide Cincinnati State students in becoming skilled Early Childhood Education teachers.

Children at the Mallory Center benefit from increased adult-child interactions, while Cincinnati State student interns benefit from direct experiences working with the children and teachers at the Center.

Teachers also have training in CPR, first aid, common childhood illnesses, and child abuse recognition. All staff and volunteers have been fingerprinted and have had a complete background check.

The Mallory Center is licensed by the City of Cincinnati's Department of Health and the State of Ohio's Department of Job and Family Services. It is accredited by the National Association for the Education of Young Children (NAEYC). The Mallory Center's commitment to quality care also is shown through voluntary participation in the Step up to Quality (STARS) rating system facilitated by the State of Ohio Department of Job and Family Services.

For more information about the Mallory Center, phone (513) 569-1504 or e-mail MalloryELC@cincinnatistate.edu. (malloryelc@cincinnatistate.edu)

Computers/Computer Labs

The College provides access to computers throughout the Clifton Campus in open labs, in the Library and in student lounge areas. In addition, the entire Clifton Campus has wireless access that is free and open to Cincinnati State students, faculty, and staff. For more about the computers and computer labs, see Campus Technology (http://www.cincinnatistate.edu/about/administration/technology/information-security) on the College website.

Fitness Center

The Fitness Center in the Main Building (Clifton Campus) provides a full range of Nautilus equipment, free weights, cardio machines and resistance equipment, as well as a gymnasium (at designated times). The Fitness Center is continuously supervised by qualified personnel and fitness classes for students and employees are scheduled periodically.

A SurgeCard (ID card) is required for use of the Fitness Center and a liability waiver must be on file. Children, food and drinks, and loitering are not permitted in the Fitness Center. For more information regarding the Fitness Center, visit the College website: https://www.cincinnatistate.edu/students/campus-life/recreation

Game Room

A Game Room is located on the lower level of the ATLC (Clifton Campus). Table tennis, billiards, board games, and equipment are available free with a SurgeCard. For more information about the Game Room please contact the Student Activities office, located in the ATLC, Room 204, or phone (513) 569-5747.

Gymnasium

The gymnasium is located on the first floor of the Main Building (Clifton Campus). It is open at designated times for general use. A SurgeCard is required to check out equipment. No food or drink is allowed in the gym. Gym shoes must be worn when using the gymnasium (street shoes with soft soles are not permitted).

Library

The Johnnie Mae Berry Library, named for the College's first librarian, provides library services to the College community. The Library is located in the Main Building (Clifton Campus), Room 170, phone (513) 569-1606. The library is open from 7:30 a.m. to 10 p.m. Monday through Thursday, 7:30 a.m. to 4 p.m. on Friday and 8 a.m. to 4 p.m. on Saturday. Shortened hours occur during the Summer semester and during periods when classes are not in session.

The library's homepage is available online at www.cincinnatistate.edu/library.

Additional information about Library services is in the Student Services - Academic Support Services (p. 218) section of this Catalog.

Lockers

The College Main Building (Clifton Campus) has a limited number of lockers available for student use. Students must provide their own locks. Cincinnati State assumes no responsibility for any loss, theft, or damage to lockers, locks, or contents due to fire, trespassers, or other reasons. Each year at the end of the Spring semester, students must remove locks and contents from their lockers so general cleaning and maintenance can be performed.

Overlook Café

The Overlook Café is located on the first floor of the ATLC (Clifton Campus). Menu planning and food preparation is provided by Midwest Culinary Institute faculty chefs and students. The Overlook offers a wide selection of wholesome foods and refreshments, including hot breakfasts and daily lunch and dinner specials, soups, a custom deli station, a salad bar, and a full range of beverages and "grab and go" options.

Vending facilities are located on the second, third, and fourth floors of the ATLC, the first and third floor lounges in the Main Building, and on the second and third floors of the Health Professions Building. If necessary, refunds from vending facilities can be obtained from the cafeteria cashier.

Parking/Transportation

Cincinnati State provides a variety of parking and transportation options for its students, faculty and staff. The College strives to utilize its available parking resources for the benefit of students, employees, and visitors to insure that the parking areas are maintained and safe, and to promote transit, cycling, ride-sharing, and other alternatives.

Metro Discount

Cincinnati State and Metro offer students significantly discounted rates. For \$1, Cincinnati State students can ride any Metro bus route, at any time, to any place Metro travels. Students must have a valid SurgeCard (ID card) to obtain a Metro discount card. To get a discount

card, log into MyCState, choose MyServices, and click on the Metro Discount Card link under Transportation/Parking.

Parking Facilities

Central Parkway Garage: Central Parkway Garage is a covered parking facility, accessible from Central Parkway, designated for students, visitors, faculty, and staff. The fee for using the Central Parking Garage is \$5 per use (using cash) or unlimited use with a valid term parking privilege (ProxCard).

Ludlow Garage: Ludlow Avenue Garage is a covered parking facility, accessible from Ludlow Avenue, designated for students, faculty, and staff. Use of the Ludlow Garage is restricted to those who have purchased a term parking privilege (ProxCard).

Lot A: Lot A is located off of College Drive and is reserved for faculty and staff only. Employees must use their ProxCard for entry and exit.

Lot C: Lot C is a daily rate and term privilege facility, accessible from Ludlow Avenue. The fee for using Lot C is \$5 per use (cash) or unlimited use with a valid term parking privilege (ProxCard).

Lot D: Lot D is located at the top of College Drive near the Main Building, and is reserved for faculty and staff only. Employees must use their ProxCard for entry and exit.

Motorcycle/Bicycle Parking Areas: Motorcycle parking is permitted in only one location, near the Main Building, at the top of College Drive. All motorcycles must be registered with the College's Police Department.

Bicycles must be secured to a bicycle rack; one is located by the entrance to the Ludlow Garage, another near the loading dock for the Main Building. Bicycles should not be chained to trees or light poles.

Drop-off/Pick-up Area: Several parking spaces in front of Main Building have been designated for motorists to drop off or pick up passengers. Motorists must remain with their vehicle at all times.

Parking Regulations

The regulations in this section were developed by the Cincinnati State Police Department, and approved by the College administration in accordance with the Ohio Revised Code. Questions about parking should be directed to the Campus Police Department at (513) 569-1558.

Emergencies: Individuals who need assistance from Campus Police should call (513) 569-1558. Emergency phones are located on the Clifton Campus near the parking areas and in the garages. These phones are monitored by Campus Police 24 hours a day, with assistance from campus police dispatch services at the University of Cincinnati.

Campus Police officers are available to assist students, staff, and visitors who accidentally lock their keys in the car, need a jump start, or need air for low or flat tires. Contact the Police Department at (513) 569-1558 for assistance.

Citation Procedure: College parking regulations are enforced by the Campus Police. Any violations can result in a citation. Ignorance of College parking policy is not an excuse for operating or parking in violation.

- College citations must be paid or appealed within 10 business days from the date of issue. After that time, the ability to appeal is lost.
- Any citation not paid or appealed within 10 business days of issue will double in cost, and the vehicle involved is subject to impoundment.
- After 30 days from issue, unpaid citations are automatically added to the student's account.
- Repeated or serious violations could result in loss of campus parking privileges, towing of vehicle, and/or impoundment at the owner's expense.

Citations are payable at the Cashier's Office or by mail to: Cincinnati State, Cashier's Office, 3520 Central Parkway, Cincinnati, OH 45223.

Cincinnati State Police Officers may also issue state citations that are paid at the Hamilton County Justice Center.

Citation Appeal Procedure: Any ticket issued by Campus Police can be appealed by filling out the appeal form available from the Campus Police Department in the Main Building (Clifton Campus). The form must be completed and submitted within 10 business days after the ticket was issued. The findings of the Appeal Committee are final.

Handicapped Parking: Parking permits are available allowing use of the handicapped parking spaces. Both a state-issued license plate/plaque and a Cincinnati State parking permit are required. Contact Campus Police for details or call (513) 569-1558.

Liability: Cincinnati State assumes no responsibility for theft or damage to vehicles parked on College property.

Parking Permit: The purchase and display of a parking permit (Prox Card) does not guarantee the availability of a parking space and does not justify parking against College policy.

Reserved Parking: Some parking spots in Lot D are reserved for specific faculty and staff members and are marked with the individual's last name, either on an adjacent wall or on the parking stop at the front of the spot. These spots are reserved Monday through Friday from 6:30 a.m. to 4 p.m. Parking in a reserved spot during these hours will result in a parking citation. (Note: The College has discontinued the practice of reserved parking and does not issue new reserved parking spots to faculty and staff.)

Visitor Parking: Paid visitor parking is available in the Central Parkway Garage or in Lot C-1. These lots can be used by students registering or visiting campus.

Clifton Hills Residential Parking Ordinance: On-street parking in the Clifton Hills neighborhood adjoining the Cincinnati State Clifton Campus is governed by a City of Cincinnati residential permit parking ordinance. Those who park in this area without a residential parking sticker on their vehicle are at risk for a \$50 parking ticket. The cost of that ticket doubles if the fine is not paid within seven days; a second offense within a year becomes a Class B Civil Offense carrying a \$100 fine.

These parking restrictions apply between 7 a.m. and 10 p.m. to Clifton Hills Avenue, Clifton Crest Terrace, and Clifton Hills Terrace, as well as portions of Ludlow Avenue and Old Ludlow Avenue marked by signs.

Police

The Cincinnati State Campus Police Department has full police powers, and is a professional, fully-trained and equipped law enforcement agency.

Assistance for Cincinnati State Campus Police dispatch services is provided by the University of Cincinnati.

The Police Department is available to help with any questions. Students are invited to visit the Police Department in the Main Building on Clifton Campus.

For more information, contact Captain Dan Reid at daniel.reid@cincinnatistate.edu or (513) 569-1558.

Non-Smoking Policy

For the purposes of this policy, smoking is defined as the burning of any type of tobacco product, including cigarettes, cigars, cigarillos, and pipes. This policy includes e-cigarettes and other forms of smoking substitutes which produce either a scented or unscented vapor. Cincinnati State has instituted the following policy regarding smoking on campus:

- 1. Smoking is prohibited in all Cincinnati State vehicles and all College buildings, including classrooms, lecture halls, laboratories, offices, work areas, study areas, reception areas, meeting rooms, lobbies, hallways, stairwells, elevators, eating areas, lounges, restrooms, covered walkways, breezeways and walkways between sections of buildings, bus-stop shelters, areas immediately adjacent to building and parking garage entrances, and exterior stairways and landings.
- Smoking is prohibited within twenty-five (25) feet of any building entrance or HVAC intake vents, except for designated smoking areas. All tobacco products must be disposed in appropriate smoking receptacles— not on the ground.
- Designated outdoor smoking areas are clearly marked with signs. They include (on the Clifton Campus):
 - Small loading dock area located at the front of the Main Building
 - Smokestack area located at the front of the Main Building
 - · Smoking area located off of the front courtyard
 - Courtyard located between the Main Building and the ATLC
- 4. Cincinnati State reserves the right to administer sanctions to any individual found in continuous violation of this policy, by referral through the College disciplinary process. Campus Police will oversee compliance with this policy; however, all faculty, staff, and students have a collective responsibility to promote the safety and health of the campus community and therefore share in the responsibility of enforcement.
- Organizers and attendees at public events, such as conferences, meetings, public lectures, and athletic competitions using Cincinnati State facilities, will be required to abide by the College Smoking Policy.

Surge Cards

Every student enrolled in classes is required to have a College identification card (SurgeCard) with them at all times for security purposes. The initial SurgeCard is free and is available from Student Activities, in Room 204 of the ATLC building (Clifton Campus), after a student has registered for classes that semester.

The SurgeCard is required to use some campus services such as the Library, the Fitness Center, computer lab printing, and admission to College sports activities. Additional uses for the SurgeCard include the bookstore, food services, day care door access for qualified parents, and other services.

Every registered student receives a credit for \$15.00 on their SurgeCard each semester to be used for printing documents in College computer labs.

To replace a lost SurgeCard, go to the Cashier's office in the Main Building (Clifton Campus) and pay a \$10.00 fee. Bring the receipt for this payment to the Student Activities office and a replacement SurgeCard will be issued.

A SurgeCard is required to obtain information about available financial aid funds that can be used to purchase books in the College bookstore. Financial aid funds are never deposited on the SurgeCard.

More information about SurgeCards is available from the Student Activities Office, or phone (513) 569-5747.

Admission Information*

Overview

Cincinnati State is an open-access, public institution dedicated to the goal of providing each student the maximum opportunity to develop and learn. Individuals who are high school graduates or have a high school equivalence (GED) are eligible for admission to Cincinnati State.

The best way to begin the process is by contacting the Office of Admission:

Clifton Campus

- Please call (513) 861-7700, send e-mail to adm@cincinnatistate.edu, or visit in person at 3520 Central Parkway, Cincinnati, Ohio, 45223.
- Clifton Campus Information Sessions are held at 9 a.m. and 6:30 p.m. every Tuesday, except on school holidays or when the campus is closed.
- For more information regarding the Clifton Campus, visit the Clifton Campus (http://www.cincinnatistate.edu/contact-us/campuses/ clifton) section of the College website.

Middletown Campus

- Please call (513) 217-3700, send an e-mail to adm@cincinnatistate.edu, (adm@cincinnatistate.edu) or visit in person at 1 North Main Street, Middletown, Ohio, 45042.
- Middletown Campus Information Sessions are held at 9 a.m. and 6:30 p.m. every Tuesday, except on school holidays or when the campus is closed.
- For more information regarding the Middletown Campus, visit the Middletown Campus (http://www.cincinnatistate.edu/contact-us/ campuses/middletown) section of the College website.

Harrison Campus

- Please call (513) 861-7700, or send an email to adm@cincinnatistate.edu.
- Harrison College Information Sessions are held at the Harrison Campus at 9 a.m. and 6:30 p.m. on the first Thursday of the month (except on school holidays or when the campus is closed) at 10030 West Rd., Harrison, Ohio, 45030
- For more information regarding the Harrison Campus, visit the Harrison Campus (http://www.cincinnatistate.edu/contact-us/ campuses/harrison) section of the College website.

Register for an Information Session by going to the Visit Cincinnati State (http://www.cincinnatistate.edu/academics/admission/visit-cincinnati-state) section of the College website.

 Note: Information Sessions are not offered on school holidays or when the campus is closed. For more information, view the Academic Calendar (p. 8) elsewhere in this catalog.

Admission Process

Prospective students must complete an online Application for Admission and provide a transcript (an official record) of their educational progress to date.

Prospective students must complete the college placement/ assessment test. Academic advisors use the placement test results to ensure students begin their academic career at Cincinnati State at an appropriate level.

Prospective students should begin the admission process at least eight (8) weeks in advance of the semester in which they plan to begin classes. This timeline helps make sure all admission steps are completed, including providing transcripts from other schools, completing placement testing, processing financial aid requests, and obtaining academic advising.

Some programs reach their capacity early, and those who are not admitted may be placed on a waitlist. Some Health and Public Safety programs have selective admission processes that require additional steps.

Applications for admission and supporting documents are processed as received. Cincinnati State supports an open admission policy based on a three-semester rolling admission process. Applicants are admitted into a semester when all admission process steps have been completed.

Admission Deadlines Fall Semester 2018

Priority Admission Deadline: August 4, 2018 Fall Semester Begins: August 27, 2017

Spring Semester 2019

Priority Admission Deadline: November 12, 2018 Spring Semester Begins: January 7, 2019

Summer Semester 2019

Priority Admission Deadline: March 25, 2019 Summer Semester Begins: May 6, 2019

Priority admission deadline refers to the last date to begin the admission process with assurance you can complete all process steps (including qualifying for financial aid) in time for the coming semester.

Admission applications and supporting documents are accepted after the priority date, but there is no guarantee that the process will be completed in time to begin classes immediately.

Students who register for classes before the admission process is completed may **not** receive financial aid, and may not gain the financial benefits of Kentucky or Indiana reciprocity agreements. Therefore, all resulting tuition and fee payments are the responsibility of the student.

When the admission process is complete, students are admitted to a degree or certificate program. Admission placements are based on a review of college placement/assessment test scores (or equivalent ACT or SAT scores), and review of high school (or GED) and college transcripts.

Some admitted students may be advised to enroll in prerequisite or Academic Foundations courses. These courses are designed to help students develop or strengthen important academic skills that enhance the student's academic success. Students must complete all prerequisite or Academic Foundation courses in three semesters or one calendar year.

Admission Process Notes

- · An Application for Admission is valid for one year.
- Required documents for admitted students are maintained for five years after the initial admission date.
- All documents submitted to the Office of Admission become the property of Cincinnati State and will not be returned, forwarded, or copied. If additional copies are needed, please request this information from the issuing institution.
- Non-degree-seeking students and applicants are not eligible to receive financial aid and do not qualify for Kentucky or Indiana tuition reciprocity.
- Graduation rate information for some degree programs is available on the College website in the sections for those programs.
 Graduation rate information for some certificate programs is available on the College website in the Gainful Employment (http:// www.cincinnatistate.edu/academics/financial-aid/financial-aidresources/gainful-employment) section.

Application Process

Cincinnati State Email, User ID, and Password

Cincinnati State creates a College email account (also referred to as SurgeMail) for all applicants and students. The College uses the Surge Mail account as the official means of business communication for College information. Applicants and students must review their Surge Mail frequently and consistently to stay current with College communications.

When a student applies to the College, a Student Network Access email will be sent to the applicant within 24 hours of submitting the application. This email message contains the applicant's user identification, SurgeMail email account, and College ID number. The message also contains links to instructions for creating a password.

Social security numbers are not used as an identifier for Cincinnati State student records.

Application Information Requirements First-Time Students

First-time students should submit:

- An online Application for Admission (https:// apply.cincinnatistate.edu/page_who_are_you.aspx).
- An official high school transcript. The transcript must be mailed directly to the Office of Admission from the institution. Handcarried, emailed, or faxed copies are not accepted.
 High school seniors may submit a high school transcript before graduation as part of qualifying for scholarships, but must also submit a final transcript after high school graduation.
- Applicants who are not high school graduates must submit a stateapproved alternative to high school graduation, such as scores from the General Educational Development (GED) test. This document may be sent by postal mail, email, or fax, or may be hand-carried to the Office of Admission.
- Applicants must complete the Cincinnati State Placement Test (see Placement Testing (p. 173) elsewhere in this catalog for details).

 A \$15 non-refundable admission fee is charged to the student's first registration bill. Cincinnati State does not charge a fee when the admission application is submitted.

Home-Schooled Students

Home-schooled students should submit:

- An online Application for Admission (https:// apply.cincinnatistate.edu/page_who_are_you.aspx).
- A notarized letter from their parents detailing the duration and the content of the student's home-school experience.
- A diploma and transcript from a recognized home-schooling association or a state diploma based on the GED.
- Applicants must complete the college Placement Test (see Placement Testing (p. 173) elsewhere in this catalog for details).

International Students

Non-U.S. citizens who have been granted the status of immigrant, permanent resident, or refugee by the Bureau of Citizenship and Immigration Services may be admitted on the same basis as U.S. citizens.

Students in these categories must provide to the Office of the Registrar a copy of applicable documentation (permanent resident card, visa, I-94, etc.) for the application to be processed. International students applying for F-1 visas should apply at least two months before they intend to begin classes at Cincinnati State, and should:

- Meet the College admission requirements of U.S. citizens, including completing an online Application for Admission (https://apply.cincinnatistate.edu/page_who_are_you.aspx).
- Provide proof of proficiency with the English language with a minimum TOEFL score of 500 (paper) or 61 (Internet-based), sent directly to Cincinnati State from the Educational Testing Service. Cincinnati State's school code is 1984.
- Submit an English translation of high school transcripts. If transferring college/university coursework from outside the U.S., student transcript(s) must be translated and evaluated by an official Credential Evaluation Service.
- Provide proof of adequate financial support. It is estimated that international students need a minimum of \$17,542 per year for tuition, books, living expenses, and miscellaneous expenses. There are no scholarships or educational loans available for international students.
 - Submission of a signed and officiated Certification of Finances Form, sent to the attention of the International Student Advisor, is required to verify the availability of sufficient funds to cover the cost of the education while attending Cincinnati State.

After receipt of the above-mentioned documents, and consequent offer of admission, all international students must submit a \$3,500 advance tuition deposit fee to the Cashier's Office.

- This deposit is credited to the individual's account and used only for payment of tuition and fees.
- The fee covers approximately one semester of tuition. The student must provide for all other expenses, including room, board, books, transportation, and incidental expenses.

An I-20 Form is issued to the student only after the steps described above are completed.

For additional information regarding international admission, contact the International Student Advisor at (513) 569-1543, or review the International Students (http://www.cincinnatistate.edu/academics/admission/admission-overview/international-students) section of the College website.

Only certain international student visas are eligible for financial aid. Please see the Office of Financial Aid (http://www.cincinnatistate.edu/academics/financial-aid) section of the College website to determine eligibility.

Non-Degree Seeking Students

Students who are not seeking a degree or certificate should answer appropriate questions on the online Application for Admission form. More information is available from the Non-Degree Seeking Student (http://www.cincinnatistate.edu/academics/admission/admission-overview/non-degree-seeking) section of the College website. Non-degree seeking students are not eligible for financial aid.

Returning Students

Students who have been admitted to Cincinnati State in the past, but have not enrolled in classes for one year or more, should follow these procedures:

- Be aware that admission documents are maintained for five years after the initial admission date.
- Previously-admitted students who have not enrolled in any classes for one (1) year must:
 - Resubmit an Application for Admission (https:// apply.cincinnatistate.edu/page_who_are_you.aspx)
 - Pay a \$15 non-refundable admission fee (charged to the student's first registration bill)
- Previously-admitted students who are reapplying two (2) years to four (4) years after their prior admission date must:
 - Resubmit an Application for Admission (https:// apply.cincinnatistate.edu/page_who_are_you.aspx)
 - Retake the placement test. See the Placement Testing (p. 173) section of this catalog for details, including the test waiver process.
 - Pay a \$15 non-refundable admission fee (charged to the student's first registration bill)
- Previously-admitted students who are reapplying five (5) years after their prior admission date must:
 - Resubmit an Application for Admission (https:// apply.cincinnatistate.edu/page_who_are_you.aspx)
 - · Resubmit all required documents
 - Retake the placement test. See the Placement Testing (p. 173) section of this catalog for details, including the test waiver process.
 - Pay a \$15 non-refundable admission fee (charged to the student's first registration bill)
- If you have graduated from Cincinnati State with a degree or certificate, but wish to resume studies at the College, you must submit a new Application for Admission (https://apply.cincinnatistate.edu/page_who_are_you.aspx).
 - You don't need to resubmit previously-submitted documents.
 - You may complete an online Test Waiver Form (https:// web3.cincinnatistate.edu/eforms/eform.aspx?form_id=168) to waive the placement test.

 Pay a \$15 non-refundable admission fee (charged to the student's first registration bill)

Placement Testing

Placement Testing/Assessment

All students seeking a degree or certificate must participate in placement assessment for mathematics, reading, writing, and keyboarding. Prior to June 2016, Cincinnati State used the COMPASS[®] test. Currently, Cincinnati State uses the Accuplacer[®] test.

Prerequisites are enforced. Students may be required to enroll in an Academic Foundations class identified through placement assessment before they can enroll in college-level courses.

On the Clifton campus, placement assessment is conducted in the Testing Center, Room 176 Main Building.

Check-in hours for placement assessment are:

- Monday and Tuesday, 8 a.m. to 5 p.m.
- Wednesday through Friday, 8 a.m. to 1 p.m.
- First Saturday of each month (except September), 8 a.m. to 10 a.m.

Visit the Placement Test (http://www.cincinnatistate.edu/academics/admission/placement-testing) section of the College website for additional information, or call (513) 861-7700. The Testing Center is closed on holidays and other days the College is closed.

On the Middletown campus, placement assessment is conducted in Room 126. Check-in hours are:

- Tuesday, 9 a.m. to noon
- Wednesday, 11 a.m. to 2 p.m.
- Thursday, 1 p.m. to 5 p.m.
- First Saturday of each month (except September), 9 a.m. to 10

Visit the Placement Test (http://www.cincinnatistate.edu/academics/admission/placement-testing) section of the College website for additional information, or call (513) 299-8339. The Testing Center is closed on holidays and other days the College is closed.

Other guidelines for placement assessment:

- Your Cincinnati State Application for Admission is required prior to placement assessment.
- There is no charge for first-time assessment.
- Plan on at least 2 1/2 hours for testing.
- When you check in for testing, a photo ID is required. All state IDs must be current.
 - The WritePlacer (and WritePlacer ESL) portion of the assessment is a timed 60-minute essay.
 - The reading, math, and keyboarding portions are not timed.
 - Personal calculators and Windows system calculators are not allowed. An online calculator will appear for appropriate math questions.
 - Pencil and paper will be provided.

- Group testing must be pre-arranged; please call (513) 569-1569 for details.
- Sample questions for the Accuplacer assessment and other guides to test preparation are available in the Placement Test (http:// www.cincinnatistate.edu/academics/admission/placement-testing) section of the College website.

Exemptions from Placement Assessment

Applicants who have taken (within the past two years) the ACT[®] or SAT[®] test, or the COMPASS[®] assessment, may be exempted from taking the Accuplacer placement assessment.

Students with transfer credit in college-level English composition and algebra, from a regionally accredited college or university, may not need to complete the entire placement assessment.

Waiver based on ACT Test Scores

- Scores can be no more than two years older than the date of the application to Cincinnati State.
- Submit a copy of your ACT scores to the Office of Admission via www.ACTstudent.org (http://www.ACTstudent.org). (ACT School Code: 5570)
- Applicants who score 17 or lower on ACT English and also score 20 or lower on ACT Reading must complete the Reading and Writing portion of the Accuplacer assessment. (If one of these two scores is above the minimum, the Accuplacer is waived.)
- Applicants with ACT Math scores lower than 22 must complete the Math portion of the Accuplacer assessment.

Waiver based on SAT Test Scores

- Scores can be no more than two years older than the date of the application to Cincinnati State.
- Submit a copy of your SAT scores to the Office of Admission via collegeboard.org (http://collegeboard.org). (SAT School Code: 1984)
- Applicants with SAT Math scores lower than 520 must complete the Math portion of the Accuplacer assessment.
- Applicants who score 429 or lower on SAT English and also score 449 or lower on SAT Reading must complete the Reading and Writing portion of the Accuplacer assessment. (If one of these two scores is above the minimum, the Accuplacer is waived.)
- Applicants who score 479 or lower on SAT Evidence Based Reading and Writing must complete the Reading and Writing portion of the Accuplacer assessment.

Waiver based on COMPASS Assessment Scores

- Scores can be no more than two years older than the date of the application to Cincinnati State.
- Submit a copy of COMPASS scores via mail, fax, email, or scores may be hand-carried to the Cincinnati State Office of Admission.

Waiver based on Transfer Courses

 If you successfully completed college-level courses in College Algebra (or higher-level math course) and/or English at a regionally accredited institution, you may submit a test waiver request (https://web3.cincinnatistate.edu/eforms/eform.aspx?form_id=168) to be considered for the waiver.

- Some programs may have specific requirements that are not met via waiver.
- Make sure that an official copy of your transcript of the courses you completed is submitted (by postal mail only) to the Cincinnati State Office of Admission.
- If you need more time to obtain your transcript, you may submit a request for extended time to transfer courses (https:// web3.cincinnatistate.edu/eforms/eform.aspx?form_id=153) from other colleges or universities.
 - You must submit a separate form for each institution where you took classes.
 - Your transcript must be received at Cincinnati State in order to waive the placement assessment.

Placement Testing Accommodations

If you are a student who has disabilities or believe you have disabilities, we encourage you to contact the Cincinnati State Office of Disability Services (https://www.cincinnatistate.edu/students/student-support/disability-services) at (513) 569-1775 prior to testing.

Institutional Transfer

State of Ohio Policy for Institutional Transfer

Note: The following information is the policy statement of the Ohio Department of Higher Education, published at https://www.ohiohighered.org/transfer/policy/appendices in Appendix F.

The Ohio Department of Higher Education in 1990, following a directive of the 118th Ohio General Assembly, developed the Ohio Articulation and Transfer Policy to facilitate students' ability to transfer credits from one Ohio public college or university to another in order to avoid duplication of course requirements. A subsequent policy review and recommendations produced by the Articulation and Transfer Advisory Council in 2004, together with mandates from the 125th Ohio General Assembly in the form of Amended Substitute House Bill 95, have prompted improvements of the original policy. Additional legislation from the 125th Ohio General Assembly also initiated the development of a statewide system for articulation agreements among state institutions of higher education for transfer students pursuing teacher education programs.

Action by the 126th Ohio General Assembly led to the establishment of criteria, policies, and procedures for the transfer of technical courses completed through a career-technical education institution; and standards for the awarding of college credit based on Advanced Placement (AP) test scores.

Legislation from the 130th Ohio General Assembly required public institutions of higher education to: use baseline standards and procedures in the granting of college credit for military training, experience, and coursework; establish an appeals process for resolving disputes over the awarding of credit for military experience; provide specific assistance and support to veterans and service members; adopt a common definition of a *service member* and *veteran*; and establish a credit articulation system in which adult graduates of public career-technical institutions who complete a 900 clock-hour program of study and obtain an industry-recognized

credential approved by the Chancellor shall receive 30 college technical credit hours toward a technical degree upon enrollment.

While all public colleges and universities are required to follow the Ohio Articulation and Transfer Policy, independent colleges and universities in Ohio may or may not participate in the Transfer Policy. Therefore, students interested in transferring to independent institutions are encouraged to check with the college or university of their choice regarding transfer agreements. In support of improved articulation and transfer processes, the Ohio Department of Higher Education has established an articulation and transfer clearinghouse to receive, annotate, and convey transcripts among public colleges and universities. This system is designed to provide standardized information and help colleges and universities reduce undesirable variability in the transfer credit evaluation process.

Acceptance of Transfer and Articulated Credit

To recognize courses appropriately and provide equity in the treatment of incoming transfer students and students native to the receiving institution, transfer credit will be accepted for all successfully completed college-level courses completed in or after Fall 2005 from Ohio public institutions of higher education. Students who successfully completed Associate of Arts (AA) or Associate of Science (AS) degrees prior to Fall 2005 with a 2.0 or better overall grade-point average would also receive credit for all college-level courses they have passed. While this reflects the baseline policy requirement, individual institutions may set equitable institutional policies that are more accepting.

Pass/Fail courses, credit-by-examination credits, experiential learning courses, and other non-traditional credit courses that meet these conditions will also be accepted and posted to the student record.

Application of Transfer and Articulated Credit

Application of credit is the decision process performed by the receiving institution to determine how the credits it has accepted and recorded on the student's official academic transcript will or will not apply toward program and degree requirements. While the receiving institution makes this decision, it will do so within the parameters of this Policy.

The following guidelines and requirements shall govern the application of transfer and articulated credit:

Ohio Transfer Module

The Ohio Department of Higher Education's Articulation and Transfer Policy established the Ohio Transfer Module, which may be a subset or the entire set of a public higher education institution's general education curriculum in Associate of Arts (AA), Associate of Science (AS) and baccalaureate degree programs. Students in applied associate degree programs may complete some individual Ohio Transfer Module courses within their degree program or continue beyond the degree program to complete the entire Transfer Module. The Ohio Transfer Module contains 36-40 semester or 54-60 quarter hours of course credit in English composition (minimum of 3 semester or 5 quarter hours); mathematics, statistics and logic (minimum of 3 semester or 9 quarter hours); social and behavioral sciences (minimum of 6 semester or 9 quarter hours); and natural sciences (minimum of 6 semester or 9 quarter hours). Oral communication and interdisciplinary

areas may be included as additional options. Additional elective hours from among these areas make up the total hours for a completed Ohio Transfer Module. Courses for the Ohio Transfer Module should be 100- and 200-level general education courses commonly completed in the first two years of a student's course of study. Each public university and technical and community college is required to establish and maintain an approved Ohio Transfer Module.

Ohio Transfer Module course(s) or the full module completed at one college or university will automatically meet the requirements of individual Ohio Transfer Module course(s) or the full Ohio Transfer Module at another college or university once the student is admitted. Students may be required, however, to meet additional general education requirements at the institution to which they transfer. For example, a student who completes the Ohio Transfer Module at Institution S (sending institution) and then transfers to Institution R (receiving institution) is said to have completed the Ohio Transfer Module portion of Institution R's general education program. Institution R, however, may have general education courses that go beyond its Ohio Transfer Module. State policy initially required that all courses in the Ohio Transfer Module be completed to receive its benefit in transfer. However, subsequent policy revisions have extended this benefit to the completion of individual Ohio Transfer Module courses on a course-by-course basis.

Transfer Assurance Guides

Transfer Assurance Guides (TAGs) comprise Ohio Transfer Module courses and additional courses required for an academic major called TAG courses. A TAG is an advising tool to assist Ohio university and community and technical college students in planning for specific majors and making course selections that will ensure comparable, compatible, and equivalent learning experiences across Ohio's public higher education system. A number of area-specific TAG pathways in meta-majors including the arts, humanities, business, communication, education, health, mathematics, sciences, engineering, engineering technologies, social sciences, and foreign languages have been developed by faculty teams.

TAGs empower students to make informed course selection decisions and plans for their future transfer. Advisors at the institution to which a student wishes to transfer should also be consulted during the transfer process. Students may elect to complete the full TAG or any subset of courses from the TAG. Because of specific major requirements, early identification of a student's intended major is encouraged.

Career-Technical Assurance Guides

Collaboration among the Ohio Department of Higher Education, the Ohio Department of Education, and other key stakeholders led to the development of policies and procedures to create statewide career-technical discipline specific articulation agreements and further ensure that students completing coursework at an adult or secondary career-technical institution can articulate and transfer agreed-upon technical courses/programs to any Ohio public institution of higher education and among Ohio public institutions of higher education "without unnecessary duplication or institutional barriers."

Career-Technical Assurance Guides (CTAGs) are statewide articulation agreements that guarantee the recognition of learning which occurs at public adult and secondary career-technical institutions and have the opportunity for the award of college credit toward technical courses/programs at any public higher education institution. CTAGs serve as advising tools, identifying the statewide content

guarantee and describing other conditions or obligations (e.g., program accreditation or industry credential) associated with the guarantee.

Military Transfer Assurance Guides

In response to the legislative requirement (Ohio Revised Code 3333.164) to create a military articulation and transfer assurance guide for college-level learning that took place through military training, experience, and coursework, college credit will be granted to students with military training, experience, and/or coursework that is recognized by the American Council on Education (ACE) or a regionally accredited military institution, such as Community College of the Air Force

In order to streamline the awarding, transferability, and applicability of college credit, service members and veterans are guaranteed to earn certain types of credit(s) or course(s) as specified in the Military Transfer Assurance Guides (MTAGs), which are based on the endorsed baseline standards and procedures by the Chancellor. Equivalent course(s), credits for courses, or block of credit is to be awarded and applied towards general education and/or major course requirements at the receiving institution in accordance with the MTAG guarantee. There is some training, experience, and coursework that the receiving institution may be able to award college credit only toward general or free electives.

In addition, public institutions of higher education shall ensure that appropriate equivalent credit is awarded for military training, experience, and coursework that meet the baseline standards and procedures according to the Ohio Revised Code 3333.164. This requirement goes beyond credit/course awarded based on the MTAG alignment process.

Apprenticeship Pathway Programs

The Apprenticeship Pathways initiative advocates for individuals completing apprenticeships by incorporating their learning into academic credit, thereby saving them time and money and encouraging them to advance their academic credentials to contribute to a strong, educated workforce.

Ohio apprenticeship programs partner with public two-year institutions to provide technology-specific statewide articulation agreements that recognize non-traditional prior learning. College credit is awarded toward a technical associate degree. Each agreement simplifies student advising by outlining how apprenticeship training in a certain pathway applies to an applied associate degree and lists remaining courses required to complete the degree. The application of the credit toward a technical associate degree in these agreements is guaranteed at the participating receiving institutions.

Advanced Placement (AP) Exams

The State of Ohio, working with public institutions of higher education, has initiated policies to facilitate the ease of transition from high school to college, as well as between and among Ohio's public colleges and universities.

Beginning in the Fall term 2009:

- Students obtaining an appropriate Advanced Placement (AP) exam score will be awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
- General Education courses and credits received will be applied towards graduation and will satisfy a general education

- requirement if the course(s) to which the AP area is equivalent fulfill(s) a requirement.
- If an equivalent course is not available for the AP exam area completed, elective or area credit will be awarded in the appropriate academic discipline and will be applied towards graduation where such elective credit options exist within the academic major.

In academic disciplines containing highly dependent sequences (Sciences, Technology, Engineering and Mathematics – STEM) students are strongly advised to confer with the college/university advising staff to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

One-Year Option Credit Award

The One-Year Option builds upon Ohio's articulation and transfer system to help more adults accelerate their preparation for work by earning a technical associate degree. Consistent with the philosophy of the Career-Technical Assurance Guides (CTAGs), the One-Year Option guarantees that college credit will be awarded for college-level learning that occurs through adult programs at public career-technical institutions.

Adults who complete a career-technical education program of study consisting of a minimum of 900 clock-hours and achieve an industry-recognized credential approved by the Chancellor shall receive thirty (30) semester hours of technical course credit toward a standardized Associate of Technical Study Degree (ATS) upon matriculation at a public institution of higher education that confers such a degree. The 30 semester hours will be awarded as a block of credit rather than credit for specific courses. Proportional credit is to be awarded toward the ATS degree for adults who complete a program of study between 600 and 899 clock hours and achieved an industry-recognized credential approved by the Chancellor.

The credit earned through the One-Year Option will be applied to ATS degrees bearing the following standardized degree titles:

- 1. Associate of Technical Study in Building and Industrial Technology
- 2. Associate of Technical Study in Business Technology
- Associate of Technical Study in Health and Allied Health Technology
- 4. Associate of Technical Study in Information Technology
- 5. Associate of Technical Study in Services Technology

Conditions for Transfer Admission

- 1. Graduates with associate degrees from Ohio's public institutions of higher education and a completed, approved Ohio Transfer Module shall be admitted to a public institution of higher education in Ohio, provided their cumulative grade-point average is at least 2.0 for all previous college-level courses. Further, these students shall have admission priority over graduates with an out-of-state associate degree and other transfer students with transferable and/ or articulated college credit.
- Associate degree holders who have not completed the Ohio
 Transfer Module from an Ohio public institution of higher education
 will be eligible for preferential consideration for admission as
 transfer students as long as the institution's admission criteria,
 such as the minimum academic standards, space availability,

- adherence to deadlines, and payment of fees, are fairly and equally applied to all undergraduate students.
- 3. In order to encourage completion of the baccalaureate degree, students who are not enrolled in or who have not earned an degree but have earned 60 semester/90 quarter hours or more of credit toward a baccalaureate degree with a cumulative grade-point average of at least a 2.0 for all previous college-level courses will be eligible for preferential consideration for admission as transfer students as long as the institution's admission criteria, such as the minimum academic standards, space availability, adherence to deadlines, and payment of fees, are fairly and equally applied to all undergraduate students.
- 4. Students who have not earned an associate degree or who have not earned 60 semester/90 quarter hours of credit with a gradepoint average of at least a 2.0 for all previous college-level courses will be eligible for admission as transfer students on a competitive basis.
- Incoming transfer students admitted to a college or university shall compete for admission to selective programs, majors, and units on an equal basis with students native to the receiving institution.

The admission of transfer students by an institution, however, does not guarantee admission to any majors, minors, or fields of concentration at the institution. Some programs have additional academic and non-academic requirements beyond those for general admission to the institution (e.g., background check, a grade-point average higher than a 2.0, or a grade-point average higher than the average required for admission to the institution). Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as native students. Furthermore, transfer students shall be accorded the same class standing and other privileges as native students on the basis of the number of credits earned. All residency requirements must be completed at the receiving institution.

Responsibilities of Students

To maximize transfer credit application, prospective transfer students must take responsibility for planning their course of study to meet both the academic and non-academic requirements of the institution to which they desire to articulate or transfer credit as early as possible. The student is responsible to investigate and use the information, advising, and other available resources to develop such a plan. Students should actively seek program, degree, and transfer information; meet with an advisor from both the current and receiving institutions to assist them in preparing a course of study that meets the academic requirements for the program/degree to which they plan to transfer; use the various electronic course/program transfer and applicability database systems, including Ohio Transfer to Degree Guarantee web resources; and select courses/programs at their current institution that satisfy requirements at the receiving institution to maximize the application of transfer credit. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are foreign language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will better articulate with the receiving institution's major.

Appeals Process

Following the evaluation of a student transcript from another institution, the receiving college institution will provide the student with a Statement of Transfer and Articulated Credit Applicability (Degree

Audit Report). A student disagreeing with the application of transfer and/or articulated credit by the receiving institution must file his/her appeal in writing within ninety (90) days of receipt of the Statement of Transfer and Articulated Credit Applicability. The institution shall respond to the appeal within thirty (30) days of the receipt of the appeal at each appeal level.

Student Complaints Following Transfer Appeals at the Receiving Institution

After a student exhausts the appeals process at the receiving institution and chooses to pursue further action, the Ohio Department of Higher Education (ODHE) responds to formal written complaints related to Ohio Articulation and Transfer Policy against public, independent non-profit, and proprietary institutions of higher education in Ohio. While the ODHE has limited authority over colleges and universities and cannot offer legal advice or initiate civil court cases, staff will review written complaints submitted through its established process and work with student complainants and institutions.

Cincinnati State's Policy for Transfer of Credit

The Cincinnati State Policy for Transfer of Credit is in compliance with the Ohio Department of Higher Education Transfer and Articulation Policy.

Coursework earned at a regionally-accredited institution of higher education with a grade of D or better will be accepted as transfer credit. Courses completed prior to Fall 2005 at a regionally accredited institution in which a passing grade of C was earned are also transferable.

Students who successfully completed an associate's degree or higher-level degree at a regionally-accredited institution prior to Fall 2005 with a 2.0 or better overall grade point average also receive credit for all college-level courses they passed. After the evaluation of transfer work is complete, the student receives by email a Transfer Evaluation Report, which lists all credits awarded in transfer and the equivalent Cincinnati State courses that have been assigned. In the event no equivalent course at Cincinnati State can be assigned, the transfer course is accepted as elective credit. Whether the courses accepted as elective credit are applicable to the student's degree or certificate program is at the discretion of the program chair or academic advisor. At the same time the Transfer Evaluation Report is provided, the student will be informed of the College's appeals process.

In situations where coursework is five years old or older, or where requisite skills may have been lost, courses previously taken at other institutions are subject to review by the faculty and dean of the division that offers the equivalent course(s). Those courses reviewed that do not meet current program requirements and standards will not count toward degree or certificate requirements.

Transfer credit accepted at Cincinnati State appears on a student's transcript as a cumulative number of hours accepted.

Cincinnati State Transfer Module Appeal Process

If a student transferring into Cincinnati State is dissatisfied with the credit awarded as part of the Transfer Module program of the State of

Ohio, an internal appeal process and an external appeal process are both available.

The internal appeal process must be utilized first. At Cincinnati State, the internal appeal process for a student dissatisfied with credit awarded as part of the Transfer Module program is the College Academic Appeals Procedure, described elsewhere in this catalog.

The external appeal process may be utilized only after the internal appeal process has been completed and the student remains dissatisfied with the College's award of credit. The external appeal will be conducted by the Statewide Appeals Review Committee. More information is available from the Ohio Department of Higher Education at https://www.ohiohighered.org/students/complaints.

College Credit Plus

College Credit Plus

The College Credit Plus (CCP) Program at Cincinnati State gives students in grades 7 through 12 the opportunity to earn college credit at little to no cost prior to graduating from high school. The program promotes rigorous academic pursuits and provides a variety of options for eligible college-ready high school students to get an early start toward completing a college degree.

Through the CCP program, public school students may take Cincinnati State courses with no cost for tuition, books, or fees. Participating students from private schools and homeschools participating in CCP may have limited costs. Students from private schools and homeschools must apply to the Ohio Department of Education to receive funding to underwrite their costs; otherwise, Cincinnati State may bill students for courses registered.

Qualified students may take college courses:

- In the high school classroom, taught by a high school teacher who has been approved to teach the college course
- At any Cincinnati State campus location, taught by Cincinnati State faculty
- · Online, taught by Cincinnati State faculty

College courses taken as a CCP student result in both college credit at Cincinnati State as well as high school credit applicable toward high school graduation. Upon graduation from high school, students can continue their education at Cincinnati State to complete an associate's degree or certificate program, or transfer college credits earned to another college or university.

Program Eligibility

Cincinnati State adheres to the Admission and Eligibility requirements of the Ohio Department of Higher Education College Credit Plus program. Students must be Ohio residents to participate in the CCP program. For public school students, the student must be enrolled in a high school in Ohio and the school must be able to receive "foundation" funding for that student's enrollment. Any student interested in enrolling in a public college or university must be considered a resident of Ohio as defined in state law. All students must apply for acceptance to Cincinnati State following the CCP Application process. All students seeking to participate in CCP must be academically assessed to determine readiness to participate.

Readiness is determined based on the review of an assessment exam such as ACT, SAT, or Accuplacer.

High School counselors help students understand available options, deadlines, and how to proceed. Students who have been deemed eligible must apply for admission to the College and must work with a CCP advisor at the college to discuss course placement options.

Prior to making application to the college, public school students who intend to participate in CCP must file a Letter of Intent with their local school district each academic year by April 1. Private high school and homeschool students are also eligible to participate in the CCP program and receive state funding under certain circumstances. Students attending a private high school and homeschool students must additionally apply to the Ohio Department of Education to receive funding to underwrite their costs. Those students who are eligible for CCP Program support are funded for a specific number of credit hours as determined by a state-provided formula. The families of students who register for additional credit hours are responsible for tuition and fees that exceed the approved number of credit hours.

While non-Ohio residents cannot participate or receive CCP funding, they may be able to enroll as Non-Degree Seeking students in College courses at the applicable non-resident or international tuition rate. For more information, contact the College Office of Admission at (513) 861-7700.

For additional CCP information:

- For students taking courses on the College campus, contact the Office of Admission at (513) 861-7700.
- For students taking courses off-campus at partner high schools, contact the Off-Campus Programs office at (513) 569-4988.

Financial Information*

Setting the cost of attending Cincinnati State

The Ohio Department of Higher Education provides a "state share of instruction" subsidy to Cincinnati State for each Ohio resident enrolled, along with other types of financial support.

However, the total revenues received from the state are less than half of the College's annual operating costs. The balance must come from tuition, fees, and other sources.

As with most institutions of higher education, Cincinnati State charges a higher tuition rate to out-of-state students since the College does not receive a subsidy to pay for their education.

Because of reciprocity agreements that have been negotiated with government officials in Kentucky and Indiana, however, residents in those states who live within commuting distance of Cincinnati State can obtain in-state tuition rates for most programs. Additional information about these agreements is in the Residency (p. 179) section of this catalog.

Making college affordable

The Cincinnati State Office of Financial Aid assists in making college affordable, by helping current and prospective students learn about and apply for available grants, scholarships, loans, and work-study programs.

To contact the Financial Aid Office on Clifton Campus:

Phone: (513) 569-1530 Email: fam@cincinnatistate.edu

Residency

General Guidelines Defining Ohio Residency

The following persons are classified as residents of the State of Ohio for tuition surcharge purposes. (Documentation supporting the student's request for classification as an Ohio resident is required.)

- A dependent student, at least one of whose parents or legal guardian has been a resident of the State of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the first-time enrollment of such student in an institution of higher education.
- 2. A person who has been a resident of Ohio for the purpose of this rule for at least 12 consecutive months immediately preceding his or her first-time enrollment in an institution of higher education and who is not receiving, and had not directly or indirectly received in the preceding 12 consecutive months, financial support from other persons or entities who are not residents of Ohio for all other legal purposes.
- 3. A dependent child of a parent or legal guardian, or the spouse of a person who, as of the first day of the semester of enrollment, has accepted full-time, self-sustaining employment and established domicile in the State of Ohio for reasons other than gaining the benefit of favorable tuition rates. Documentation is required.

- Residency status is lost immediately if the employed person upon whom resident student status was based accepts employment and establishes domicile outside of Ohio less than 12 months after accepting employment and establishing domicile in Ohio.
- 4. A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for tuition surcharge purposes.
- 5. A person who enters and currently remains on active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio as long as Ohio remains the state of such person's domicile.
- A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio.

A dependent person classified as a resident of Ohio for these purposes as a result of (1) listed above and who is enrolled in an institution of higher education when his/her parents or legal guardian removes their residency from the State of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic program.

In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of 12 months following such removal, constitute relinquishment of Ohio residency status otherwise established under items (1) or (2) listed above.

A person transferred by his or her employer beyond the territorial limits of the 50 states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes, and his or her dependents, shall be considered residents for these purposes as long as Ohio remains the state of such person's domicile and as long as such person has fulfilled his or her tax liability to the State of Ohio for at least the tax year preceding enrollment.

A person who has been employed as a migrant worker in the State of Ohio and his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio for at least four months during each of the three years preceding the proposed enrollment.

Any person classified as a non-resident who wishes to be considered for resident status must apply to the institution he or she attends for reclassification as a resident of Ohio. Should such a person present clear and convincing proof that no part of his or her financial support is or in the preceding 12 months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such a person shall be reclassified as a resident.

Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification. Evidentiary determinations under this rule shall be made by the institution, which will require the submission of documentation regarding the sources of a student's actual financial support and other documentation. Criteria which may be considered in determining residency for tuition purposes may include, but are not limited to:

Criteria evidencing residency:

- If a person is subject to tax liability under section 5747.02 of the Ohio Revised Code
- 2. If a person qualifies to vote in Ohio
- 3. If a person is eligible to receive state welfare benefits
- If a person has an Ohio driver's license and/or motor vehicle registration
- 5. If a person has a signed and binding lease/deed to a domicile in the State of Ohio

Criteria evidencing lack of residency:

- If a person is a resident of or intends to be a resident of another state or nation for the purpose of tax liability, voting, receipt of welfare benefits or student loan benefits (if the student qualified for that loan program by being a resident of that state or nation)
- If a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of welfare benefits

IMPORTANT: An individual's immigration status will affect his or her ability to obtain resident status for tuition purposes. Contact the Office of the Registrar, phone (513) 569-1522 or registraroffice@cincinnatistate.edu (xregistraroffice@cincinnatistate.edu) for more information. Additional information and guidelines concerning residency are available in the Office of the Registrar.

Ohio Residency for Tuition Surcharge Purposes

Tuition is charged on the basis of residence in the State of Ohio and residence outside of the State of Ohio. A student with a question of their right to claim legal residence in the State of Ohio for educational purposes may request the College review their residency status.

- The student initiates the review process by submitting a completed Review of Residency form, available from the Tuition Residency Guidelines (https://cincinnatistate.edu/reciprocity) page of the College website.
- The Review of Residency form should be submitted to the Cincinnati State Office of the Registrar at least five working days prior to the beginning of the semester in which the student plans to enroll

Proof of residency documentation is required when requesting a review of residency. Documentation includes:

- An Ohio driver's license or Ohio state identification card is required.
- A lease, deed, or notarized letter to validate living in the state is required.
- Proof of paying Ohio income tax, bank statements, voter registration card, and employment documents and letters all can be considered support documents to validate residency status.
- Other documents may be requested as needed.

Forever Buckeye

Forever Buckeye (https://www.ohiohighered.org/forever-buckeyes) extends the in-state resident tuition rate to any public or private Ohio

high school graduate who leaves the state but returns to enroll in an undergraduate or graduate program at an Ohio college and also establishes residency in Ohio. The Forever Buckeyes provision of law removes the 12-month period of establishing domicile in Ohio before becoming eligible for in-state tuition rates.

Tuition Reciprocity for Indiana Residents

Cincinnati State Technical and Community College does not charge out-of-state tuition to residents of Adams, Allen, Blackford, Clark, Dearborn, Decatur, Delaware, Fayette, Floyd, Franklin, Henry, Jay, Jefferson, Jennings, Ohio, Randolph, Ripley, Rush, Scott, Switzerland, Union, Washington, Wayne, and Wells counties in Indiana who are admitted to the College in either a degree or certificate program under the reciprocity agreement between Ohio and Indiana.

The only programs excluded from the reciprocity agreement with Indiana are the Nursing programs, including the associate's degree in Nursing (NUR and NURP) and the Practical Nursing certificate (PNC).

To be admitted a student must submit an admission application, have high school and college (if applicable) transcripts mailed to Cincinnati State, and complete the college placement/assessment test. Students must be admitted to the College and received their letter of admission to be eligible for in-state tuition.

This same reciprocity agreement enables residents of Butler, Darke, Mercer, Preble, Shelby, and Van Wert counties in Ohio to attend and pay Indiana resident tuition rates at Ball State University, Indiana University East, Ivy Tech Community College of Indiana-Region 6, Ivy Tech Community College of Indiana-Region 9 and Purdue University College of Technology at Muncie and Richmond in courses or programs not specifically excluded from this agreement by each institution.

For more information regarding tuition reciprocity for Indiana resident please visit the tuition and fees (http://www.cincinnatistate.edu/admission-financial-aid/admissions/tuition-fees/tuition-fees/? searchterm=tuition%20residency) page of the College website.

Tuition Reciprocity for Northern Kentucky Residents

Cincinnati State does not charge out-of-state tuition to residents of Boone, Bracken, Campbell, Carroll, Gallatin, Grant, Kenton, and Pendleton counties in Kentucky who are approved to enroll at Cincinnati State under the reciprocity agreement between Ohio and Kentucky.

To qualify for reciprocity, students must be admitted to Cincinnati State as degree-seeking (matriculated) students and enroll in eligible associate's degree programs. To be admitted a student must submit an application for admission, have high school and college (if applicable) transcripts mailed to Cincinnati State, and complete the college placement/assessment test. Certificate programs are excluded from this tuition reciprocity agreement.

This same reciprocity agreement enables graduates of Cincinnati State who are residents of Butler, Clermont, Hamilton, and Warren counties in Ohio to enroll in certain baccalaureate degree programs at Northern Kentucky University and pay Kentucky resident tuition rates. Graduates must satisfy all NKU regular transfer admission

requirements, including any requirements of the specific baccalaureate program.

For more information regarding tuition reciprocity for Northern Kentucky residents please visit the tuition and fees (http://www.cincinnatistate.edu/admission-financial-aid/admissions/tuition-fees/tuition-fees/?searchterm=tuition%20residency) page of the College website.

Tuition and Fees

Tuition and Fees

Please visit the Tuition and Fees (https://cincinnatistate.edu/academics/admission/tuition-overview/tuition-rates-and-fees) page of the College website for current tuition, fees, and other costs. The information provided below reflects rates in effect for the 2018-2019 academic year, which ends in August 2019.

Tuition

Tuition includes instructional fee, general fee, and other non-instructional service fees. Non-resident fees include a non-resident surcharge. The tuition rates below are applicable as of June 2018 and are subject to change.

Tuition per Credit Hour

| In-State Tuition | Out-of-State Tuition |
|------------------|----------------------|
| \$158.64 | \$317.28 |

| Credit Hours Taken | In-state Tuition | Out-of-state Tuition and Surcharges |
|--------------------|------------------|-------------------------------------|
| 1 | \$158.64 | \$317.28 |
| 2 | \$317.88 | \$634.56 |
| 3 | \$475.92 | \$951.84 |
| 4 | \$634.56 | \$1,269.12 |
| 5 | \$793.20 | \$1,586.40 |
| 6 | \$951.84 | \$1,903.68 |
| 7 | \$1,110.48 | \$2,220.96 |
| 8 | \$1,269.12 | \$2,538.24 |
| 9 | \$1,427.76 | \$2,855.52 |
| 10 | \$1,586.40 | \$3,172.80 |
| 11 | \$1,745.04 | \$3,490.08 |
| 12 | \$1,903.68 | \$3,807.36 |
| 13 | \$2,062.32 | \$4,124.64 |
| 14 | \$2,220.96 | \$4,441.92 |
| 15 | \$2,379.60 | \$4,759.20 |

Kentucky and Indiana residents will be charged Ohio in-state tuition when applicable under reciprocity agreements.

Schedule of Fees

The fees listed below are applicable as of June 2017 and are subject to change.

Lab Fees

• Standard lab fee: \$35 per lab contact hour

- Special lab fee: \$50 per lab contact hour for courses with the department codes listed below (fee covers consumable materials and/or special supplies and equipment used)
 - Aviation Maintenance Technology (AMT)
 - · Culinary Arts (CUL)
 - Dietetics (DT)
 - · Pastry Arts (PAS)
 - Personal Chef (PCC)
 - Welding (WLD)
 - All Health and Public Safety Division courses, not including courses in Health and Fitness Technology (HFT), Health Information Management (HIM), Physical Education (PE), and Public Safety Technology (PST)

Course Fees

- Academic Foundations course fee: \$10 per course
- Cooperative education course fee: \$30 per course
- Directed practice / practicum course fee: \$40 per course
- Web-based course fee: \$10 per credit hour
- Special course fee: Some courses have additional fees related to the cost of special supplies and equipment used in specific degree or certificate programs.

The maximum amount charged for lab fees and/or course fees for any one course will not exceed \$350. This does not include the cost of course tuition.

Example: how to calculate tuition and fee costs for a course

An Ohio resident registers for semester class IM 100 Computer Literacy. This course is listed in the catalog with 1 lecture contact hour, 2 lab contact hours, and 2 total credit hours.

- Tuition is 2 (credit hours) x \$158.64 = \$317.88
- Lab fee is 2 (lab contact hours) x \$35 = \$70

Total tuition and lab fee for this class is \$317.88 + \$70 = \$387.88

Other Fees

- Admission Application Fee: \$15 (one-time fee, payable at first registration)
- Extended Payment Plan Fee: \$60 per semester
- Facility Fee: \$9 per credit hour up to a maximum of \$82.50 per semester
- · Late Registration Fee: \$100 per semester
- · Registration Fee: \$9 per semester
- Technology Fee: \$37.50 per semester

Parking Fees

Parking privileges are \$5 per day or \$75 per semester

All fees are subject to change at the discretion of the College. Fees other than Tuition and Course/Lab fees are non-refundable.

All fees for each semester must be paid by the end of that semester. Certificates, degrees, transcripts, and further registration activities are withheld until all financial obligations are fully paid.

Books and Supplies

The cost of books and supplies can vary from semester to semester. Also, different programs have different requirements. For example, students in engineering technologies programs generally will spend more on supplies and equipment than students in business technologies programs. The first semester usually is the most expensive, as students purchase books and supplies at that time that will be used in later semesters also.

Students with pending financial aid in excess of their tuition and fees may charge books against their pending financial aid, using their SurgeCard (p. 170), at the College's Follett Bookstore (http://www.cincinnatistate.edu/on-campus/bookstore/? searchterm=bookstore) located the first floor of the ATLC Building (Clifton Campus).

Cooperative Education Credit Charges

Charges for cooperative education class registration (co-op credits) must be paid on the established registration date. Review the program curriculum published in the academic division section of this catalog to determine the exact number of co-op credits required.

Refund of Tuition Charges

Students are responsible for paying all charges incurred as a result of registering for classes. The College will not drop a student's classes or reduce tuition charges/fees due to a student's non-payment of those charges.

Students may receive a fee reduction for classes by formally withdrawing from those classes for any reason. The amount of the fee reduction is based on the date of withdrawal and calculated according to the College's published refund schedule. Refunds are disbursed to the student or/and a third-party payer. There also may be a reduction or loss of financial aid eligibility.

Refund checks are mailed to students within 14 days of financial aid disbursal if there is financial aid in excess of a student's tuition charges/fees.

- Requests for refunds are considered only if the student officially drops the course. Students may utilize the online registration function of MyServices to drop courses at any time. Students may also drop a course at any time by completing and signing the official Registration Activity Form available in the Office of the Registrar.
- The Admission fee, Registration fee and Late Registration fee are NOT refundable.
- 3. The following fees are not refundable unless the College cancels all classes for which the student registers:
 - · Registration fee
 - Technology fee
 - Facility fee
 - Extended Payment Plan fee
 - · Late Registration/Payment fees
- 4. The College's tuition refund schedule for standard semester courses is as follows:
 - Refunds for full-semester-length (15-week) classes dropped before the first day of the semester are calculated at a rate of 100% refund of the in-state or out-of-state tuition and course/

- lab fee for the dropped class. Students are not eligible for financial aid for these dropped classes.
- Refunds for full-semester-length classes dropped from the first day of the semester through the seventh calendar day of the semester are calculated at a rate of 100% refund of the in-state or out-of-state tuition and course/lab fee only for the dropped class. Students are not eligible for financial aid for these dropped classes.
- Refunds for full-semester-length classes dropped from the eighth to fourteenth calendar day of the semester are calculated at a rate of 50% refund of the in-state or out-of-state tuition fee and course/lab fee for the dropped class.
- There is no reduction of charges for full-semester-length courses dropped after the fourteenth calendar day of the semester; however, there may be a reduction or loss of financial aid eligibility.
- 5. Refunds for flexibly-scheduled courses: Courses which have a beginning or/and ending date different than the first or last days of the standard semester schedule are considered flexibly-scheduled and have a prorated refund period applied to them. A 100% refund is applicable to a flexibly-scheduled course dropped in the first 7% period of that course's semester. A 50% refund is applicable to a flexibly-scheduled course dropped in the 8% to 14% period of that course's semester. No refund is applicable after the 14% period of the semester.
- 6. Refunds for cancelled courses: A refund of 100% is made to a student who has registered for a course that is cancelled by the College, if the student does not change to another course.
- Refunds for students whose registration bill was paid by third party funding (financial aid, agency) are applied toward reimbursing the third party before any disbursement to the student.
- If a student owes a financial obligation to the College, the refund is applied toward payment of the balance due before any disbursement to the student.
- Students who do not follow the established dropped-class procedures of the College are not eligible for a refund.
- Students who have questions concerning refunds should contact the Cashier's Office.
- 11. Appeals to this refund policy may be filed by completing and submitting an appeal form, available at the Cashier's Office.

Cincinnati State Technical and Community College reserves the right to revise this statement of tuition refunds at any time.

For more information contact the Cashier's Office, phone (513) 569-1580 or cashier@cincinnatistate.edu.

Tuition Waiver for Senior Citizens

Tuition waivers are available for senior citizens who register to audit courses on a space-available basis during open registration periods. The waiver covers the in-state tuition fee; senior citizens must pay all other fees. Waivers are not applicable to non-audited courses or to non-credit courses. A senior citizen is defined as a student who is 60 years of age or older at the time of registration.

Financial Aid and Scholarships

The Office of Financial Aid on the Clifton Campus is open to assist students Monday through Friday. No appointment is necessary. Students are accommodated on a first-come, first-served basis.

Telephone assistance is available during office hours at (513) 569-1530, or send email to fam@cincinnatistate.edu.

The goal of the Office of Financial Aid at Cincinnati State is to enable access to higher education by providing college financial planning and quality customer service to students and families in pursuit of their educational goals.

Cincinnati State awards approximately \$60 million annually from federal and state financial aid programs, private donors, and the College's own funds. More information is available in the Financial Aid and Scholarships (https://cincinnatistate.edu/academics/financial-aid) section of the College website.

Financial aid is money in the form of scholarships, grants, loans, and employment through Federal Work-Study.

- Scholarships and grants do not have to be repaid. Scholarships are generally awarded on the basis of academic merit and/or financial need, while grants are typically awarded on the basis of financial need.
- Loans are borrowed money that must be repaid over a period of time, usually after the student leaves school.
- Federal Work-Study (FWS) is money that students earn by working at a part-time job with an office on- or off-campus.

How to Apply

When you apply for admission to Cincinnati State, you can also apply for financial aid.

To be considered for financial aid, you must complete the Free Application for Student Financial Aid form (FAFSA) available at www.fafsa.ed.gov (http://www.fafsa.ed.gov).

- Use Cincinnati State's Title IV School Code (010345) when filling out your FAFSA so that Cincinnati State's Financial Aid Office receives your information.
- FAFSA applications can be completed starting October 1 of each year to qualify for financial aid for the next academic year. (For example, October 1, 2018, is the date to start FAFSA for financial aid that would begin in August 2019, and would be used during the 2019-2020 academic year.)

The FAFSA includes all information necessary to determine the student's Expected Family Contribution (EFC). The FAFSA must be completed for consideration of most federal student aid programs.

Many states offer financial assistance to students based on the FAFSA results and the availability of funds each year.

Students and parents of dependent students must apply for a Federal Student Aid ID (FSAID) at www.fsaid.ed.gov (https://fsaid.ed.gov) before they can complete the FAFSA.

 The FSAID can be used each year to electronically complete and sign the FAFSA, as well as to access Federal Student Aid records online.

To receive maximum consideration for certain programs, including the Supplemental Educational Opportunity Grant (SEOG), and Federal Work-Study (FWS), students should submit their FAFSA no later than February 15 of each calendar year.

After a FAFSA is submitted, students receive an email from Federal Student Aid with a Student Aid Report (SAR); students should keep all parts of this report. The College receives the results of each student's FAFSA electronically in seven to ten business days after it is filed.

Students receive notification from Cincinnati State if further documentation is needed, or when their financial aid award is available. Notification is provided using the applicant's/student's Cincinnati State email account (SurgeMail).

How Financial Aid Awards are Calculated

Awards are calculated using the following formula:

 Cost of Attendance (COA) minus Expected Family Contribution (EFC) equals Need

Generally, financial aid is awarded to students based on need. A principle behind awarding need-based financial aid is that students and their families should pay for educational expenses to the extent they are able. A family's ability to pay for educational costs must be evaluated in an equitable and consistent manner.

To be fair to everyone, a standard federal formula is used to calculate a student's Expected Family Contribution (EFC). The information is derived from the student's completed Free Application for Federal Student Aid (FAFSA). Financial need is the difference between a student's total annual Cost of Attendance (COA) and the Estimated Cost of Attendance (EFC).

A student's need for financial assistance will differ from school to school because the cost of attendance will differ.

Estimated Cost of Attendance (COA)

A student's COA is pro-rated based on the number of semesters enrolled.

The tuition rates and fees below are applicable as of June 2018 and describe cost of attendance for two semesters (Fall and Spring or Spring and Summer), and are subject to change.

Student's aid cannot exceed the assigned Cost of Attendance, as follows:

| In State | Independent | Dependent |
|----------------|-------------|-----------|
| Tuition | \$3,800 | \$3,800 |
| Room & Board | \$3,800 | \$1,904 |
| Books | \$1,176 | \$1,176 |
| Transportation | \$496 | \$496 |
| Personal | \$656 | \$656 |
| Fees | \$576 | \$576 |

Total (Attending 2

semesters)

| comocioro) | | |
|-------------------------------|-------------|-----------|
| Out of State | Independent | Dependent |
| Tuition | \$7,600 | \$7,600 |
| Room & Board | \$3,800 | \$1,904 |
| Books | \$1,176 | \$1,176 |
| Transportation | \$476 | \$476 |
| Personal | \$656 | \$656 |
| Fees | \$576 | \$576 |
| Total (Attending 2 semesters) | \$14,304 | \$12,408 |

\$8,608

\$10,504

How Financial Aid Awards are Assigned

Need based aid (Pell Grant, SEOG, Direct Subsidized Stafford Loans, Work-Study, and State Grants) is assigned first to students based on their Expected Family Contribution, priority filing (if applicable), and federal limits. Then, non-need-based aid (Direct Unsubsidized Stafford Loans, Direct PLUS Loans, Alternative Loans) is assigned to students by subtracting the need-based aid from the Cost of Attendance (COA), and using the federal limits to award aid for the difference. If a student received any other funding source (NEALP, scholarships, or outside assistance), the student's award must be re-adjusted to ensure the award does not exceed the COA.

For the student's benefit, aid will be adjusted in the following order:

- 1. Alternative Loans
- 2. Direct PLUS Loan
- 3. Direct Unsubsidized Loan
- 4. Direct Subsidized Loan
- 5. Federal Work-Study (any unearned amount)
- 6 SEO

All financial aid is awarded according to federal, state, and institutional guidelines. Financial aid is disbursed to students after the processing of no-show rosters is complete.

Eligibility Criteria

In addition to specific requirements for individual aid programs, to receive financial aid at Cincinnati State you must:

- Be enrolled in or accepted into a degree program or eligible certificate programs (https://cincinnatistate.edu/node/4648) listed on the College website
- Be a U.S. citizen or eligible non-citizen
- · Have a valid Social Security number
- Have a high school diploma or General Education Development (GED) certificate
- Sign a statement certifying all federal student aid will be used only for educational purposes
- Not be in default on a federal student loan or owe money back on a federal student grant
- Not have been convicted for any illegal drug offense while receiving federal financial aid funds
- Register with the Selective Service (https://www.sss.gov/ default.htm), if required
- Complete federal verification (if selected)

- Enroll in required courses for your program and attend classes for which you are registered
- Meet academic standards set by your financial aid award and Cincinnati State's policy for Satisfactory Academic Progress (https://cincinnatistate.edu/academics/financial-aid/financial-aid-resources/satisfactory-academic-program) (SAP) described on the College website

Other financial aid information:

- Financial aid awards are adjusted appropriately for changes in a student's enrollment status.
- To be eligible for loans, a student must be enrolled in at least six eligible credit hours at the time of disbursement.
- Students are no longer eligible for financial aid once graduation requirements are met.
- Students are eligible for student aid only for classes that are applicable to their program.
- Students are not eligible for financial aid for a class after it has been passed, and is attempted a second time.

Types of Aid

Sources of funding to support the cost of college education include grants, loans, and scholarships.

Federal Grant and Loan Programs

The federal government provides various student financial aid programs to promote student achievement and preparation for global competitiveness by fostering educational excellence and ensuring equal access. These programs include **loans** and **grants**.

Loans must be paid back. They include: Federal Stafford Loan Program

Federal Direct Stafford loans (subsidized and unsubsidized) are low-interest loans made to students attending school on at least a half-time basis. At Cincinnati State, half-time means enrolled for at least six eligible credit hours per semester. Students may receive student loans only up to 150 percent of their academic program of study. Students are not required to make payments on subsidized or unsubsidized loans while enrolled at least half-time (six or more credit hours). Students are responsible for the interest that accrues on an unsubsidized loan. An option to have the interest capitalized on an unsubsidized loan is available.

At Cincinnati State, all first-time borrowers are required to complete an online loan entrance counseling session and Master Promissory Note (MPN) in order to receive loan proceeds. Students access the loan counseling session and MPN at www.studentloans.gov (http://www.studentloans.gov). Students interested in a loan must also complete a loan acceptance e-form and complete an F.L.Y. financial literacy session via MyServices.

Federal PLUS Loans - Loans for Parents

Federal PLUS loans enable parents of dependent students with good credit histories to borrow funds to help pay their child's educational costs. The student for whom a PLUS loan is borrowed must attend school on at least a half-time basis. To apply, parents should complete a prescreening for eligibility at www.studentloans.gov (http://

www.studentloans.gov). In the event a parent is declined a PLUS loan, the student may qualify for additional unsubsidized loan funds. Cincinnati State will receive acknowledgement of the status of the loan when complete.

Grants do not need to be paid back. They include:

Federal Pell Grant

Pell Grants are awarded to undergraduate students who demonstrate financial need based on their Expected Family Contribution (EFC). The annual maximum Pell Grant is determined each year by the federal government. Pell Grants may be awarded to both full-time and part-time students and are pro-rated based on attendance. Eligible students may receive up to six years at full-time status, or 600% of their eligibility.

Federal Work-Study

Federal Work-Study provides jobs for students with financial need, allowing them to defray educational expenses. The amount a student earns may not exceed the Work-Study award. When assigning work hours, supervisors consider a student's class schedule, Work-Study award amount, and employer needs. Work-Study awards are offered first to students with exceptional financial need. Priority is given to students who have completed their financial aid file by February 15 of each year. Funding is limited and is awarded based on the availability of funds. This program is intended to help train students for the labor market as well as meet their financial needs.

Supplemental Educational Opportunity Grant (SEOG)

SEOG is for undergraduate students with exceptional financial need who are eligible to receive a Pell Grant. Priority for SEOG at Cincinnati State is given to students who have completed their financial aid file by February 15 of each year. Applying by February 15 does not guarantee receipt of SEOG for the upcoming academic year. Funding is limited and is awarded based on the availability of funds. SEOG may be awarded to both full-time and part-time students and is pro-rated based on attendance.

Ohio State Grant Programs

The Ohio Department of Higher Education administers several state financial aid programs that provide assistance to college students based on a variety of criteria, ranging from need to academic achievement. More information on these programs is available at www.ohiohighered.org/sgs (https://www.ohiohighered.org/sgs).

Nurse Education Assistance Loan Program (NEALP)

The purpose of the NEALP is to provide financial assistance to students enrolled in approved nurse education programs in Ohio institutions and to encourage students to remain in Ohio as they enter the nursing profession. NEALP loans are limited to students in the RN (Nursing associate's degree) program and are \$3,000 per year for a maximum of four years.

Repayment of a NEALP loan is cancelled on an annual basis though service as a full-time nurse in Ohio. More information is

available at www.ohiohighered.org/nealp (http://www.ohiohighered.org/nealp).

Ohio Academic Scholarship

The Ohio Academic Scholarship program provides scholarships for up to four years for academically outstanding Ohio high school graduates on a competitive basis. The program's objective is to encourage Ohio students to attend an Ohio college or university. Ohio's academically top-ranked students are eligible and should contact their high school guidance counselor for more information.

Ohio Safety Officers Tuition Waiver

This program provides tuition assistance to the children and spouses of peace officers, fire fighters, and certain other safety officers who are killed in the line of duty, anywhere in the United States.

The program also provides assistance to the children and spouses of a member of the armed forces of the U.S. who has been killed in the line of duty during Operation Enduring Freedom, Operation Iraqi Freedom, or a combat zone designated by the President of the United States. The child is eligible for this program only if he or she is not eligible for the Ohio War Orphans Scholarship. More information is available at www.ohiohighered.org/safety-officers-college-fund (https://www.ohiohighered.org/safety-officers-college-fund).

Ohio War Orphan's Scholarship

The Ohio War Orphan's Scholarship program awards tuition assistance to the children of deceased or severely disabled Ohio veterans who served in the armed forced during a period of declared war or conflict. To receive War Orphan's Scholarship benefits, a student must be enrolled for full-time undergraduate study at an eligible Ohio college or university. Ohio residency is required. Applicants must be under the age of 25. Scholarship benefits cover a portion of instructional and general fee charges at two-and four-year public institutions and a portion of these charges at eligible private colleges and universities. More information is available at www.ohiohighered.org/ohio-war-orphans (http://www.ohiohighered.org/ohio-war-orphans).

Choose Ohio First Scholarship Program

The Choose Ohio First Scholarship Program awards Ohio colleges, universities and their business partners that have developed innovative academic programs to recruit and retain more Ohio students in science, technology, engineering, mathematics, and medical (STEMM) fields. Funding that these programs receive is used to offer scholarships to current and potential students. More information is available at www.chooseohiofirst.org (https://www.ohiohighered.org/cof).

Other Financial Aid Programs Cincinnati State Scholarship Program

The purpose of the scholarship program at Cincinnati State is to acknowledge and reward high academic achievement by helping deserving students finance their college educational costs. Current information about institutional scholarships and the application process is in the Scholarships (https://cincinnatistate.edu/academics/financial-aid/financial-aid-types/scholarships) section of the College website.

The Cincinnati State scholarship application deadline date is February 15 of each calendar year. Recipients of a scholarship from Cincinnati State must reapply each year.

Scholarship eligibility requirements include:

- U.S. citizenship or eligible non-citizen
- Accepted for enrollment into a degree or eligible certificate
 program prior to application deadline. Students are encouraged
 to apply early, at least 6 to 8 weeks prior to the scholarship
 deadline. In most cases this will allow enough time to complete the
 admission process.
- Minimum grade point average of 2.0 is required for most scholarships. (However, many scholarships require at least a 3.0 GPA.)
- Applicants must have their Free Application for Federal Student Aid (FAFSA) results on file.
- One professional letter of recommendation, delivered in an electronic format. Some scholarship opportunities may require additional documentation at the discretion of the donor.
- · Completed electronic application.

Students who meet the eligibility criteria and complete all requirements to apply for a scholarship by February 15 each year (no exceptions) are considered for all scholarships for which they are eligible. The number and types of scholarships vary from year to year, depending on donations received for the scholarship program.

Other (Non-Cincinnati State) Scholarship Opportunities

The public library is an excellent source of information on private sources of financial aid. Many companies have programs to help pay the costs of post-secondary education for employees and their family members. In addition, financial assistance is available from many foundations, religious organizations, fraternities, sororities, town and city clubs, local school boards, and civic groups. Information about these scholarships is available at no cost via the internet.

Students are also encouraged to review additional information in the External Scholarship Opportunities (https://cincinnatistate.edu/academics/financial-aid/financial-aid-resources/external-scholarships) section of the College website.

Satisfactory Academic Progress (SAP) Policy

The Higher Education Act (HEA) of 1965 requires institutions of higher education to establish and apply standards of academic progress that must be met by all students receiving Federal Student Aid (FSA), under Title IV programs, including Federal Work-Study, Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Federal Direct Subsidized and Unsubsidized Loans, and Parent PLUS Loan programs. These standards also apply to the following State of Ohio funded programs: Ohio Academic Scholars, NEALP, Frank O'Bannon, Choose Ohio First, and Ohio Safety Officer Scholarships.

All Cincinnati State scholarship recipients and CState Accelerate recipients are expected to adhere to this policy as well.

The Satisfactory Academic Progress (SAP) Policy was established to encourage students to successfully complete courses and to progress satisfactorily toward degree completion.

- Successful completion of a course is defined as receiving one of the following grades: A, B, C, D, or S.
- The following grades/statuses are not considered as successful completion of a course: F, W, I, IP, U, N, or NS.

SAP includes a student's total academic history, including any enrollment periods in which a student did not receive financial aid or received academic forgiveness. SAP will be reviewed after each semester for financial aid recipients. If it is determined that a student is not meeting SAP, the student will receive a warning via College email at the end of the semester. Students will be allowed financial aid conditionally for one additional semester of attendance, and future aid will be put on hold pending a review of grades. After the review of grades, if it is determined that a student is not meeting SAP, the student will receive a suspension notice via College e-mail indicating their financial aid has been suspended. The student must submit an SAP Appeal e-form for review in order to potentially receive financial aid for the upcoming semester.

It is the student's responsibility to read, understand, and adhere to the SAP policy in order to remain eligible for financial aid. Failure to comply with this policy can result in the student's financial aid being terminated at Cincinnati State.

Standards

There are three specific measurements of academic performance pertaining to financial aid eligibility.

Grade Point Average (GPA)

Students must maintain a cumulative GPA of at least 2.0 in order to remain eligible for financial aid.

Maximum Time Frame (MTF)

Students are expected to complete a degree/certificate within a maximum time frame (MTF) of 150% of the published length of that program.

To determine how many credits a student may attempt for a given program, multiply the number of credits required to complete the program by 150%. For instance, if a program requires 64 credit hours to graduate, a student must complete their program within 96 credit hours $(64 \times 1.5 = 96)$.

Students will be notified when they have attempted a number of credit hours equivalent to 100% of their curriculum. If the student has not completed all courses necessary for graduation at 150% of their curriculum, their financial aid will be terminated. The student may appeal for additional financial aid funds if they are required to take more credit hours than are listed in the Catalog curriculum.

Transfer credit hours are counted into the formula. Students who transfer more credit hours than are applicable to their program should complete an appeal.

All appeals for MTF should include the MTF appeal e-form and a progress review e-form completed by their academic advisor.

After a student graduates from one associate's degree or certificate program, they are no longer eligible for financial aid. Students who wish to complete another degree or certificate must appeal.

Course Completion

To ensure that students will graduate within the Maximum Time Frame of their program, they must complete 67% of all attempted credit hours. To determine a student's completion rate, the number of completed credit hours is divided by the number of attempted credit hours. For instance, if a student registers for 12 credits, but completes only 4 credits, their completion rate is 33% (4/12 = 33%).

Satisfactory Academic Progress (SAP) Evaluation Guidelines

SAP Warning

Approved SAP Appeal/SAP Probation

When an appeal is approved, the student's financial aid is reinstated, but with conditions. One such condition is Probation, which means the student must meet all aspects of SAP at the end of the semester. The other condition is an Academic Plan, which means the student must complete 75% of all credit hours each semester and receive a GPA of at least 2.5 each semester until all aspects of SAP are met.

Students who do not meet the conditions of their appeal will have their financial aid terminated again.

Denied SAP Appeal

When an appeal is denied, the student is responsible for covering the cost of their own tuition and fees and may not receive financial aid until they meet all requirements of SAP. The Office of Financial Aid reserves the right to terminate a student's financial aid indefinitely at its discretion.

SAP Conditions Advanced Standing

Advanced standing credit hours received count as attempted and completed credit hours toward the Maximum Time Frame (MTF) standard and completion percentage standard.

Audits

Audited courses do not count towards course completion or Maximum Time Frame. Students may not receive financial aid for these courses at any time.

Change of Major

Students who decide to change their major will still have all credit hours of their original major counted toward the MTF calculation of their new major.

Double Major

Students with a double major (earning two degrees) may receive 150% of the larger credit hour program. Once the limit is met, students must appeal to determine additional eligibility.

Academic Foundations (AF) Courses

Academic Foundations courses, which include English as a Second Language (ESL) courses, do not count toward the 150% MTF. However, these courses are limited to a maximum of 30 credit hours attempted, regardless of whether financial aid was used to pay for them.

Academic Forgiveness

Students who receive Academic Forgiveness (described in the Academic Policies section of this catalog) are not exempt from meeting all aspects of the SAP Policy. If financial aid is terminated due to academic status, the student must submit an appeal for financial aid.

Repeating Passed Courses

Students may receive financial aid for a previously passed course one time, regardless of whether financial aid was used to pay for the first attempt of the course. If the repeated class is subsequently dropped and not eligible for financial aid, it is still counted as a repeat and not further eligible for financial aid.

Courses taken under Cincinnati State's term calendar that have been equated to a semester course count as a repeat. Passed courses will count as complete only once, but will be counted as attempted each time the course is taken, for purposes of determining the student's course completion standard of SAP. The highest grade earned will be calculated into the grade point average.

Prior Enrollment without Financial Aid

Students who previously did not use financial aid, but later begin to receive financial aid, are not exempt from meeting SAP. All credit hours attempted and completed, as well as GPA, must be taken into consideration in determining SAP, regardless of previous financial aid status.

Re-Entry

Students who return to Cincinnati State following any length of separation are subject to meeting Satisfactory Academic Progress standards regardless of previous financial aid status. All courses attempted from prior enrollment will be considered in evaluating SAP.

Transfer Students

A large number of transfer credits can place a student over the maximum time frame standard. In this case the student may appeal to determine what credits are applicable to their program, in order to recalculate their maximum time frame. Applicable credits are calculated into attempted and completed credits for purposes of determining completion rate. A student's GPA is not affected by credits transferred from prior institutions.

Financial Aid/SAP Definitions

Acceptable Documentation: Doctor's note, birth certificate, obituary, unemployment benefits record.

Attempted Course: Courses that are not dropped before the end of the 100% refund period, or any repeated course.

Double Major: A student enrolled into two degree programs, two certificate programs, or one of each.

Extenuating Circumstance: A death in the family, hospitalization, loss of employment, and/or any other circumstance will be considered on a case-by-case basis. Students must provide appropriate documentation to support extenuating circumstances.

Probation: The granting of financial aid for one semester, based on an approved SAP appeal, to a student who did not meet SAP standards at the end of the prior semester.

Transfer Student: A student admitted to the College with credits earned from a prior institution.

Financial Aid Attendance/ Withdrawal Policies

Loan Eligibility and Less than Half-Time Enrollment

Students must be enrolled for at least half time (six credit hours or a part-time co-op) to be eligible for loans. Any time a Stafford loan-borrowing student withdraws to less than half time, takes off a semester, or enrolls for less than six credit hours, federal regulations require the student to complete exit counseling.

Even if the student intends to return to Cincinnati State with at least six credit hours, the student's repayment deferment time period begins when enrollment is less than six credit hours, and exit counseling is required. Students may complete exit counseling at www.studentloans.gov (http://www.studentloans.gov).

Non-Attendance of Classes

- Instructors are required to document student attendance in each course section for all class sessions held during the first two weeks of the semester. For courses that do not meet for the full semester (i.e., flexibly scheduled course sections) the attendance reporting period will vary based on the course's structure. Please consult the College's Important Dates chart (in the Calendars (https://www.cincinnatistate.edu/academic-calendar) section of the College website), or the Office of the Registrar for information on when non-attendance is reported for these courses.
- From the first day of the semester until the First Day to Withdraw for the semester, students who drop a course must identify if they attended the course section.
- A student who enrolls in a course but does not attend the course during the stated no-show period will be designated a No Show (NS) and dropped from the course after the instructor reports nonattendance.
- If there is a discrepancy between a student's self-reported attendance status and the attendance status reported by an instructor, the attendance status reported by the instructor will be the status of record.
- Students are not permitted to begin attending a course section after an NS has been issued or has been self-reported by the student for that course section.
- The designation of NS will not appear on the student's transcript.
- A student who receives an NS designation for a course is still financially responsible for payment for the course. State and federal financial aid is not applicable to a course for which a student has received an NS designation.

 A student is not permitted to withdraw from a course he or she did not attend or to which an NS has been assigned.

A student who receives what he or she believes is an incorrect NS designation for one or more classes may ask for a determination that this was an institutional error. Students who have been incorrectly marked with NS must wait until passing grades have posted to their academic record in order for the Office of Financial Aid to adjust the student aid for that semester.

If a student receiving Title IV aid receives an NS designation for one or more classes and does not receive an earned grade (such as an A, B, C, etc.) on completion of a class, no financial aid will be disbursed for such classes.

Policy on Failure to Complete All Classes in a Semester (for Federal Financial Aid Recipients)

Federal Department of Education regulations require students to earn their eligibility for Title IV funds through attendance in classes. If a financial aid recipient ceases to be enrolled prior to the end of the semester, the student's eligibility for Title IV funding must be recalculated. The recalculation process may require that portions of the Title IV funding be returned to the funding source. Such students are subject to a financial aid re-calculation and must return a pro-rated portion of their financial aid to the Department of Education, leaving the student with a bill due to the College.

Academic Policies and Procedures*

This section of the catalog, and the related sub-sections, describe how academic performance is measured at Cincinnati State. The sub-sections include:

- policies for applying advanced placement and other external credits to Cincinnati State coursework
- policies and procedures related to registering for classes
- policies and procedures affecting academic matters such as grades and graduation

Assessment of Learning Outcomes

All Cincinnati State students participate in assessment activities throughout their academic life at the College. In addition, the College collects and analyzes information from graduates, employers, advisory committee members, and other external sources to assist faculty and staff in monitoring the effectiveness of academic programs.

Cincinnati State is a member of the Academic Quality Improvement Project (AQIP) of the Higher Learning Commission, a regional accreditation agency recognized by the U.S. Department of Education (230 South LaSalle Street, Suite 7-500, Chicago, IL 60604, phone 800-621-7440).

Under the auspices of the Higher Learning Commission, and in congruence with the College mission statement, Cincinnati State has established the following criteria for assessing the general educational outcomes of Cincinnati State graduates.

A Cincinnati State graduate will be able to:

- Read critically, including the ability to analyze and interpret a variety of printed books, documents, and articles
- Produce clear, logical, correct, coherent, and properly documented prose
- Plan, write, and deliver an effective oral presentation
- · Use mathematical skills to solve practical problems
- Analyze, interpret, and critically respond to non-print media/ sources
- · Explain how social, organizational, and technological systems work
- Display awareness of cultural, ethnic, gender, racial, and religious diversity
- Demonstrate self-management skills such as being able to accurately self assess, set personal goals, and monitor personal progress
- Demonstrate professional and ethical workplace practices by successful completion of cooperative education, clinical or practicum experience, or internships
- Function in the workplace both independently and as a member of a team
- · Display a commitment to lifelong learning

Learning Outcomes for each associate's degree program offered by the College are listed in the Academic Divisions and Degree and Certificate Programs section of this Catalog.

Equal Opportunity

Cincinnati State is committed to a policy of equal educational opportunities for all persons regardless of race, age, handicap, sexual orientation, national origin, or gender. This policy is adopted as a matter of law and as a matter of educational policy consistent with the goals and purposes of the College.

The College also adheres to a policy of equal employment opportunity and affirmative action to end any illegal pattern of discrimination and to overcome the effects of past discrimination.

Credits Earned from Other Institutions

This section describes how Cincinnati State processes requests to accept credit for educational work completed at other institutions or in other settings.

Advanced Standing Credit, General Policies (AC, CL, EC, EL, ET, EX, IB, TP, VO)

Advanced standing credit means that a student receives credit for completing a Cincinnati State course or cooperative education requirement by using one of the methods listed below to demonstrate successful completion of appropriate prior academic and/or work experience. Advanced standing credit is available to students who have been accepted into a degree or certificate program.

Students seeking advanced standing credit must follow College and divisional procedures published elsewhere in this Catalog and/or on the College website.

The types of advanced standing credit are:

External Proficiency Examination

The amount of credit given for an external proficiency examination is determined by the appropriate academic department.

- Credit may be awarded for Advanced Placement (AP) scores of three or higher. Credit is shown on the student's record as AC.
- Credit is awarded for College Level Examination Program (CLEP) scores. Students should have their CLEP test scores sent to the Cincinnati State Office of Admission for processing. Credit is shown on the student's record as CL.
- Credit may be awarded for International Baccalaureate program scores of five or higher. Credit is shown on the student's record as IB.

Internal Cincinnati State Proficiency Exam

Credit is shown on the student's record as EC.

Credit for Applicable Work Experience

Credit is shown on the student's record as EX.

Credit for an External Certificate/Licensing Exam

Credit is shown on the student's record as EL.

Credit for an External Formal Training Program

Credit is shown on the student's record as ET.

Credit through Senior Vocational Teacher Referral

Credit is shown on the student's record as VO.

Credit for Tech Prep Coursework

Credit is shown on the student's record as TP.

Some types of advanced standing credit are not available in some degree or certificate programs.

Students should be aware that advanced standing credit awarded by Cincinnati State may not be applicable to degrees at other colleges or universities. A student who intends to transfer to another college or university should consult with a transfer advisor at that institution concerning the transferability of Cincinnati State advanced standing credits.

Students should make arrangements to apply for advanced standing credit as soon as possible after admission to a program.

Requesting Advanced Placement (AP Exam) Credit

Cincinnati State awards advanced standing credit to students who have completed Advanced Placement (AP) courses in high school and have achieved an appropriate test score.

The State of Ohio, working through the University System of Ohio, has initiated policies to facilitate the ease of transition from high school to college as well as between and among Ohio's public colleges and universities. For example:

- Students obtaining an appropriate Advanced Placement (AP) exam score are awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
- General Education courses and credits received are applied towards graduation and satisfy a general education requirement if the course(s) to which the AP area is equivalent fulfill a requirement.
- 3. If an equivalent course is not available for the AP exam area completed, elective or area credit is awarded in the appropriate academic discipline and is applied towards graduation where such elective credit options exist within the academic major.
- Additional courses or credits may be available when a score of four or five is obtained. Award of credit for higher score values varies depending on the institution and academic discipline.
- 5. In academic disciplines containing highly dependent sequences (Sciences, Technology, Engineering and Mathematics – STEM), students are strongly advised to confer with the college/university advising staff to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

Students should have their AP test scores sent to Cincinnati State's Office of Admission for processing.

Requesting International Baccalaureate Credit

Cincinnati State awards credit to International Baccalaureate (IB) diploma graduates for higher level subjects passed at a satisfactory level. Minimum scores vary, by subject area, from five to seven.

Credit may be awarded based on the recommendation of the appropriate Cincinnati State academic department or division.

Students should have their IB test scores sent by the International Baccalaureate Organization to Cincinnati State's Office of Admission for processing.

Requesting Other Advanced Standing Credit

To obtain advanced standing credit for all other types of prior learning, a student should:

- Obtain a Petition for Advanced Standing Credit from the Office of the Registrar.
- Meet with his/her program chair or academic advisor to determine eligibility for advanced standing credit, and to determine which faculty member should receive the completed petition and supporting documentation.
 - Note that in situations where coursework or equivalent experience is five years old or older, or where requisite skills may have been lost, courses previously taken, or equivalent experience, are subject to review by the program chair and dean. Courses or equivalent experiences that do not meet current program requirements and standards will not count toward degree or certificate requirements.
- 3. Pay the advanced standing credit fee at the College Cashier's Office, where the petition is marked "paid." This step applies to students seeking advanced standing credit either through internal proficiency exams or through documented valid academic or work experience. A separate fee is charged for each attempt to earn credit through an internal proficiency exam.
- 4. Submit the completed petition and supporting documentation to the appropriate faculty member, as determined in Step 2.

After the petition and related materials are reviewed by appropriate division personnel, and the request for advanced standing credit is approved or disapproved, the petition is forwarded to the Office of the Registrar and the student is notified of the results.

Students cannot earn credit through an exam for a course already completed at Cincinnati State. A course is defined as "completed" if a grade of A, B, C, D, F, S, U, or W has been issued.

Waiver of English Composition Requirement Based on Earned Degree

A student who has earned an associate's or bachelor's degree at a regionally accredited college or university will receive a waiver, which will satisfy the Cincinnati State English Composition requirement for all degree and certificate programs. The waiver will appear on the student's transcript as "ENG REQC – Eng Comp Complete."

To receive this waiver, an official academic transcript from the degreegranting institution must be submitted to Cincinnati State, using procedures described in the Admission (p. 171) section of this catalog.

Courses Earned through AP Credit

Requesting Advanced Placement (AP Exam) Credit

Cincinnati State awards advanced standing credit to students who have completed Advanced Placement (AP) courses in high school and have achieved an appropriate test score.

The State of Ohio, working through the University System of Ohio, has initiated policies to facilitate the ease of transition from high school to college as well as between and among Ohio's public colleges and universities. For example:

- Students obtaining an appropriate Advanced Placement (AP) exam score are awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.
- General Education courses and credits received are applied towards graduation and satisfy a general education requirement if the course(s) to which the AP area is equivalent fulfill a requirement.
- 3. If an equivalent course is not available for the AP exam area completed, elective or area credit is awarded in the appropriate academic discipline and is applied towards graduation where such elective credit options exist within the academic major.
- 4. Additional courses or credits may be available when a score of four or five is obtained. Award of credit for higher score values varies depending on the institution and academic discipline.
- 5. In academic disciplines containing highly dependent sequences (Sciences, Technology, Engineering and Mathematics – STEM), students are strongly advised to confer with the college/university advising staff to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

Students should have their AP test scores sent to Cincinnati State's Office of Admission for processing. Credit is shown on the student's record as AC.

The table below indicates the course awarded for each Advanced Placement exam, based on the score earned.

| Test Name | Score on Test | Course Awarded | Credit Hours Awarded |
|-------------------|------------------|--|----------------------------|
| Art History | 3-5 | ART 110: Introduction to Art | 3 |
| Biology | 3 | BIO 131: Biology 1 | 5 |
| Biology | 4-5 | BIO 131: Biology 1 & BIO 132: Biology 2 | 5 + 5 |
| Calculus AB | 3-5 | MAT 251: Calculus 1 | 5 |
| Calculus BC | 3-5 | MAT 251: Calculus 1 & MAT 252: Calculus 2 | 5 + 5 |
| Capstone Research | 3-5 | General Elective | 3 |
| Capstone Seminar | 3-5 | General Elective | 3 |

| Chemistry | 3 | CHE 121: General Chemistry 1 & CHE 131: General Chemistry 1 Lab | 4 + 1 |
|---|-----|---|------------------|
| Chemistry | 4-5 | CHE 121: General Chemistry 1 & CHE 131: General Chemitry 1 Lab & CHE 122: General Chemistry 2 & CHE 132: General Chemistry 2 Lab | 4 + 1 + 4 + 1 |
| Chinese Language and Culture | 3-5 | General Elective | 8 |
| Comparative Government and Politics | 3-5 | POL 102: Introduction to Comparative Governments and Politics | 3 |
| Computer Science A | 3-5 | General Elective | 3 |
| Computer Science AB | 3-5 | General Elective | 3 |
| Computer Science Principles | 3-5 | IT 100: Computer Programming Foundations | 3 |
| English Language | 3-4 | ENG 101: English Composition 1 | 3 |
| English Language | 5 | ENG 101: English Composition 1 & ENG 102: English Composition 2 | 3 + 3 |
| English Literature | 3-4 | ENG 101: English Composition 1 | 3 |
| English Literature | 5 | ENG 101: English Composition 1 & ENG 102: English Composition 2 | 3 + 3 |
| Environmental Science | 3 | EVS 130: Ecology and Ecosystems | 4 |
| Environmental Science | 4-5 | EVS 130: Ecology and Ecosystems & EVS 110: Environmental Science: Conservation and Cleanup | 4 + 4 |
| European History | 3-5 | Transfer Module Social Science Elective | 3 |
| French Language | 3 | FRN 101: Elementary French 1 & FRN 102: Elementary French 2 | 4 + 4 |
| French Language | 4 | FRN 101 Elementary French 1 & FRN 102 Elementary French 2 & FRN 201: Intermediate French 1 | 4 + 4 + 4 |
| French Language | 5 | FRN 101: Elementary French 1 & FRN 102: Elementary French 2 & FRN 201: Intermediate French 1 & FRN 202: Intermediate French 2 | 4 + 4 + 4 + 4 |
| German Language | 3-5 | General Elective | 8 |
| Human Geography | 3-5 | GEO 115: Cultural Geography | 3 |
| Italian Language and Culture | 3-5 | General Elective | 8 |
| Japanese Language and Culture | 3-5 | General Elective | 8 |

| Latin | 3-5 | General Elective | 8 |
|--|-----|--|------------------|
| Latin Literature | 3-5 | General Elective | 8 |
| Latin: Virgil | 3-5 | General Elective | 8 |
| Macroeconomics | 3-5 | ECO 110: Principles of Macroeconomics | 3 |
| Microeconomics | 3-5 | ECO 105: Principles of Microeconomics | 3 |
| Music Theory | 3-5 | General Elective | 3 |
| Physics 1 | 3-5 | PHY 151: Physics 1: Algebra and Trigonometry Based | 4 |
| Physics 2 | 3-5 | PHY 152: Physics 2: Algebra and Trigonometry Based | 4 |
| Physics B | 3-5 | PHY 151: Physics 1: Algebra and Trigonometry Based & PHY 152: Physics 2: Algebra and Trigonometry Based | 4 + 4 |
| Physics C: Mechanics | 3-5 | PHY 201: Physics 1: Calculus Based | 5 |
| Physics C: Electricity and Magnetism | 3-5 | PHY 202: Physics 2: Calculus Based | 5 |
| Psychology | 3-5 | PHY 110: Introduction to Psychology | 3 |
| Spanish Language | 3 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 | 4 + 4 |
| Spanish Language | 4 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 & SPN 201: Intermediate Spanish 1 | 4 + 4 + 4 |
| Spanish Language | 5 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 & SPN 201: Intermediate Spanish 1 & SPN 202: Intermediate Spanish 2 | 4+4+4+4+4 |
| Spanish Literature | 3-4 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 & SPN 201: Intermediate Spanish 1 | 4 + 4 + 4 |
| Spanish Literature | 5 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 & SPN 201: Intermediate Spanish 1 & SPN 202: Intermediate Spanish 2 | 4 + 4 + 4 + 4 |
| Statistics | 3-4 | MAT 131: Statistics 1 | 3 |
| Statistics | 5 | MAT 131: Statistics 1 & MAT 132: Statistics 2 | 3 + 3 |
| Studio Art 2-D | 3-5 | General Elective | 3 |
| Studio Art 3-D | 3-5 | General Elective | 3 |
| Studio Art Drawing | 3-5 | ART 141: Drawing 1 | 3 |

| U.S. Government and Politics | 3-5 | POL 101: American Government | 3 |
|------------------------------|-----|---|-----|
| U.S. History | 3-5 | HST 111: American History, Early Settlers to 1877 & HST 112: American History, 1877 to Present | 3+3 |
| World History | 3-5 | HST 101: World History: Prehistory to 1500 & HST 102: World History: 1500-Present | 3+3 |

Courses Earned through CLEP Credit

Requesting College Level Examination Program (CLEP) Credit

Credit is awarded for College Level Examination Program (CLEP) scores. Students should have their CLEP test scores sent to the Cincinnati State Office of Admission for processing. Credit is shown on the student's record as CL.

The table below indicates the course awarded for each CLEP exam, based on the score earned.

| Test Name | Score on Test | Course Awarded | Credit Hours Awarded |
|---|------------------|---|----------------------------|
| Financial Accounting | 65 and above | ACC 101: Financial Accounting | 3 |
| Information Systems | 50 and above | General Elective | 3 |
| Introductory Business Law | 60 and above | LAW 101: Business Law | 3 |
| Principles of Management | 50 and above | General Elective | 3 |
| Principles of Marketing | 65 and above | MKT 101: Principles of Marketing | 3 |
| American Literature | 53 and above | Transfer Module Arts/ Humanities Credit | 3 |
| Analyzing and Interpreting Literature | 59 and above | LIT 200: Introduction to Literature | 3 |
| College Composition | 50 and above | No course awarded, but student is eligible to enroll in ENG 101 | 0 |
| College Composition Modular | 50 and above | No course awarded, but student is eligible to enroll in ENG 101 | 0 |
| English Literature | 62 and above | Transfer Module Arts/ Humanities Credit | 6 |
| Humanities | 55 and above | Transfer Module Arts/ Humanities Credit | 3 |
| French Language | 55-64 | FRN 101: Elementary French 1 & FRN 102: Elementary French 2 | 4 + 4 |

| French Language | 65 and above | FRN 101: Elementary French 1 & FRN 102: Elementary French 2 & | 4 + 4 + 4 + 4 |
|--|-----------------|--|------------------|
| | | FRN 201: Intermediate French 1 & FRN 202: Intermediate French 2 | |
| German Language | 59-66 | General Elective | 8 |
| German Language | 67 and above | General Elective | 12 |
| Spanish Language | 56-62 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 | 4 + 4 |
| Spanish Language | 63-67 | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 & SPN 201: Intermediate Spanish 1 | 4 + 4 + 4 |
| Spanish Language | 68 and above | SPN 101: Elementary Spanish 1 & SPN 102: Elementary Spanish 2 & SPN 201: Intermediate Spanish 1 & SPN 202: Intermediate Spanish 2 | 4 + 4 + 4 + 4 |
| American Government | 56-62 | Transfer Module Social Science Credit | 3 |
| American | 63 and | POL 101: Introduction to | 3 |
| Government | above | American Government | |
| History of the United States 1 | 56 and above | HST 111: American History: Early Settlers to 1877 | 3 |
| History of the United States 2 | 57 and above | HST 112: American History: 1877 to Present | 3 |
| Human Growth and Development | 58 and above | PSY 225: Lifespan Development | 3 |
| Introduction to Educational Psychology | 62 and above | Transfer Module Social Science Credit | 3 |
| Introductory Psychology | 59 and above | PSY 110: Introduction to Psychology | 3 |
| Introductory Sociology | 56 and above | SOC 105: Introduction to Sociology | 3 |
| Principles of Microeconomics | 57 and above | ECO 105: Principles of Microeconomics | 3 |
| Principles of Macroeconomics | 56 and above | ECO 110: Principles of Macroeconomics | 3 |
| Social Sciences and History | 62 and above | Transfer Module Social Science Credit | 3 |
| Western Civilization | 55 and above | HST 161: Western Civilization 1: Ancient Near East to 1648 | 3 |
| Western Civilization 2 | 54 and above | HST 162: Western Civilization 2: 1648 to Present | 3 |
| Biology | 50 and above | Transfer Module Natural Science without Lab Credit | 3 |
| Chemistry | 50-64 | Transfer Module Natural Science without Lab Credit | 3 |

| Chemistry | 65 and above | CHE 121: General Chemistry 1 | 4 |
|------------------------|---------------------------|---------------------------------|---|
| College Algebra | 63 and above | MAT 151: College Algebra | 4 |
| College Mathematics | 57 and above | Transfer Module Math Credit | 3 |
| Natural Sciences | No Acceptable Score | No Credit Awarded le | 0 |
| Precalculus | 61 and above | MAT 153: Precalculus | 6 |
| Calculus | 64 and above | MAT 251: Calculus 1 | 5 |

Registration

Current registration deadlines for each semester are available on the Important Dates Chart in the Calendars (https://cincinnatistate.edu/academic-calendar) section of the College website.

Students may register for classes using these methods:

- online using the MyServices section of the Cincinnati State website
- in person in the Office of the Registrar (Clifton Campus)
- by fax sent to the Office of the Registrar at (513) 569-1883

Administrative Withdrawal from Admitted Status and Readmission Process

An admitted student who has not enrolled in classes for three consecutive semesters is administratively removed from admitted status. To regain admitted status, students must reapply for admission by submitting a new Application for Admission and paying a \$15 non-refundable fee.

Students who are readmitted must meet the academic program requirements that are in effect at the time of readmission.

- Previously-admitted students who have not enrolled in any classes for one (1) year must:
 - Resubmit an Application for Admission.
 - Pay a \$15 non-refundable admission fee (charged to the student's first registration bill).
- Previously-admitted students who are reapplying two (2) years to four (4) years after their prior admission date must:
 - · Resubmit an Application for Admission.
 - Retake the placement test. (You may be eligible for test wavier if you have taken college-level English and/or math courses.)
 - Pay a \$15 non-refundable admission fee (charged to the student's first registration bill).
- Previously-admitted students who are reapplying five (5) years or more after their prior admission date must:
 - · Resubmit an Application for Admission.
 - Resubmit all required documents.
 - Retake the placement test. (You may be eligible for test wavier if you have taken college-level English and/or math courses.)
 - Pay a \$15 non-refundable admission fee (charged to the student's first registration bill).

- If you have graduated from Cincinnati State with a degree or certificate, but wish to resume studies at the College, you must submit a new Application for Admission.
 - You don't need to resubmit previously-submitted documents.
 - You may complete an online Test Waiver Form to waive the placement test.
 - You must pay a \$15 non-refundable admission fee (charged to the student's first registration bill).

For additional information, see the Admission Overview (https://cincinnatistate.edu/academics/admission/admission-overview) section of the College website.

Changing Degree Programs

Students who wish to transfer from one degree or certificate program to another must complete the online Change of Major form found under Admission in the MyServices area of MyCState.

When a student transfers from one degree or certificate program to another, all courses attempted that apply to the new Degree Audit curriculum – with the exception of cooperative education courses – automatically transfer to the new program.

The Degree Audit curriculum is the official set of academic requirements in effect for new students at the time of admission to the degree or certificate program.

Course substitutions that were made for a former program do not apply automatically to the new program. The program chair or academic advisor for the program the student is entering must approve course substitutions

The new program's Degree Audit curriculum serves as the basis for calculating the program Grade Point Average (GPA). Additional transfer of courses to the new program, including cooperative education courses, is based on evaluation of the student's coursework by the program chair and/or cooperative education coordinator.

In situations where coursework is five years old or older, or where requisite skills may have been lost, courses previously taken are subject to review by the program chair and dean. Those courses reviewed that do not meet current program requirements and standards will not count toward degree or certificate requirements.

Completing More Than One Degree (Double Major)

When students are admitted to the College, they are considered to be seeking only one academic degree or certificate. In some cases, students may seek to "double major" by pursuing a second associate's degree in an area closely related to their initial degree program.

To be considered for a double major, students must first be fully admitted to an associate's degree program. Students in pre-admit/pathway status are not eligible to apply for a double major. Students seeking a certificate rather than a degree are not eligible to apply for double major status.

To be considered for a double major, students must apply for admission to the second program by completing a double major form available online under Admission in the MyServices area of MyCState.

The academic division in which the student seeks the second major determines whether the student is eligible to pursue the second major.

Students granted double major status are expected to consult regularly with their program chair/advisor (or advisors) to ensure they make appropriate progress in their degree programs. Students with questions or concerns about their academic status or goals should consult with their program chair/advisor, or with the Office of Admission.

Enrollment Status

Enrollment status is determined by the official number of credit hours for which a student registers each semester. Enrollment status often is used to help determine eligibility for financial aid, veteran's benefits, company and agency funding, health insurance benefits, and auto insurance.

Students are responsible for knowing their enrollment status and understanding the impact of changing their credit hours if using the add/drop process.

Cincinnati State defines a student's enrollment as follows:

| Full-Time Enrollment | 12 or more credit hours or full- time cooperative education or internship course |
|--------------------------------|---|
| Full-Time Enrollment Co-op | 2 credit hours = full-time status |
| 3/4-Time Enrollment | 9 - 10 - 11 credit hours |
| Half-Time Enrollment | 6 - 7 - 8 credit hours or enrollment in a part-time (half-time) cooperative education or internship course |
| Half-Time Enrollment Co-op | 1 credit hour = half-time status |
| Less than Half-Time Enrollment | 5 or fewer credit hours |

Enrollment Verification

Students may submit enrollment verification request(s) to the Office of the Registrar. Depending on the information requested, enrollment verifications processed in the Registrar's Office may take up to five business days to complete. The National Student Clearinghouse is the College's verifying agent; students can see their enrollment status at www.studentclearinghouse.org (http://www.studentclearinghouse.org).

Late Registration

Late registration begins two weeks prior to the beginning of the semester and continues until registration for the semester ends. Students who register for their first class during the late registration period will automatically be charged a \$100 non-refundable late registration fee. The instructor's approval will be required to add a class during the first week of the semester if the course is online, has already met, or is full. After classes begin each semester, all registration activity must be processed in the Registrar's Office.

Specific registration deadlines for each semester are available on the Important Dates Chart on the College website.

Name Changes

To request a name change, students must complete a Personal Data Change form available in the Office of the Registrar. All name change requests must be accompanied by a copy of official supporting documentation. Official documentation includes, but is not limited to, a valid driver's license, marriage license, divorce decree, or court order for official name change. Only a student's legal name is used on all records maintained or issued by the College.

Prerequisite Requirements

Before a student is permitted to register for any course, the student must successfully complete prerequisite requirements, or be currently enrolled in the course that is the prerequisite. A prerequisite can be satisfied by an appropriate score from the college placement/ assessment test or successful completion of a designated Academic Foundations (AF) course or another academic course prior to enrollment in the course with the prerequisite.

Repeated Course

If a course is repeated, only the highest grade is computed in the calculation of the Grade Point Average (GPA). If a student earns the same grade upon repeating a course, only one grade is computed in the calculation of the GPA. The original course grade is still shown on the transcript with an indication that it is not calculated in the GPA.

Limits to Repeated Course

A student who has received a grade of F, W, or any other grade twice for the same course cannot register for the course a third time without the approval of the student's program chair or academic advisor. The program chair/advisor may require the student to meet with an academic advisor to discuss potential for success in the student's current degree or certificate program.

Students receiving financial aid should be aware of other standards related to repeated courses, discussed in the Financial Information (p. 179) section of this catalog.

Priority Registration

The registration period each semester consists of two overlapping segments or registration "windows":

- Priority registration is the time period set aside for active degreeseeking and certificate-seeking students, regardless of their accumulated credit hours.
- Open registration begins approximately one week after Priority registration begins. Students who are not seeking a degree or certificate may register at this time. Applicants who have not been admitted to a program may also register.

For specific dates of registration and additional information regarding online registration, please refer to the Office of the Registrar (http://www.cincinnatistate.edu/admission-financial-aid/registrar/office-of-the-registrar) section of the College website.

Academic Forgiveness Policy

Students experiencing current academic success may adjust their Grade Point Average (GPA) by petitioning to remove certain courses from their GPA calculation. Courses with earned grades of D, F, V, or WF that do not apply to the student's current degree or certificate program may be eligible. Courses taken in a previous completed degree program are not eligible.

Academic Forgiveness is a one-time, non-reversible option. Students who plan to transfer to another college or university should note that

the new college or university may use all grades earned in computing GPAs for admission or other purposes.

For Academic Forgiveness eligibility, students must:

- Be admitted to a degree or certificate program and have completed all Academic Foundations or English as a Second Language requirements.
- Have completed 12 credits or more successfully, after the last term/semester they earned grades of D or F—not including coursework for which Satisfactory/Unsatisfactory grades are assigned.

To request Academic Forgiveness, students must:

- Complete a petition for Academic Forgiveness (available in division offices) in consultation with their program chair or academic advisor. This petition lists courses in which the student earned grades of D, F, V, or WF and requests that these grades no longer be calculated in the grade point average.
- Complete a minimum of 12 additional credits and maintain a GPA of 2.0 or higher, and earn no grade lower than a C. Academic Foundations courses and co-op courses are not eligible.
- Submit the completed petition to the Office of the Registrar once the 12 additional credits have been earned.
- The Office of the Registrar evaluates the petition. If the student has successfully completed 12 credits with a semester grade point average of 2.0 or higher and earned no grade below a C, Academic Forgiveness is applied.
- After the petition is approved and Academic Forgiveness is applied, the following statement appears on the student's transcript: "The Academic Forgiveness policy has been applied to academic work at Cincinnati State prior to (semester/year of petition approval)." The eligible courses will not be removed from the academic record. A new cumulative grade point average is calculated, excluding the eligible courses.

Academic Life

Academic Advising

Academic advising assists students in reaching their academic and career goals at Cincinnati State. Program chairs, academic advisors, other faculty members, and some staff members are assigned to guide students through activities such as:

- · Setting academic goals
- Developing educational plans
- · Selecting courses
- · Providing information on transfer credits
- · Understanding and meeting requirements for graduation
- Clarifying career and personal goals
- Explaining academic policies and procedures
- Addressing academic challenges
- · Making appropriate referrals to campus support services

Academic Appeals Procedure

Cincinnati State Technical and Community College has adopted the following procedures to ensure students with legitimate concerns about academic processes (hereafter called "academic appeals") can resolve these concerns equitably.

Before using the steps below, a student is expected to attempt to resolve concerns directly with the instructor, within the semester immediately following the semester when the grade was issued.

- A student is expected to bring his or her academic appeal first to his or her faculty advisor (program chair or cooperative education coordinator).
- If the concern cannot be settled at this level, the student is expected to bring his or her academic appeal to the division dean or the dean's designee.
- 3. It is expected that most academic appeals will be resolved at the division level. However, if the concern cannot be resolved by the division dean, the student may continue the academic appeals process by meeting with an academic appeals panel. To initiate the appeals process, the student must submit a written request to appeal the decision of the division dean, including a statement of the concern that is to be addressed, and pertinent documentation, to the Provost. The Provost reviews all pertinent information in order to determine whether the appeal merits the formation of a panel. If the Provost determines that an appeals panel should appropriately be formed, the process continues to step four. If the Provost does not feel the student's appeal merits the formation of a panel, he/she meets with the student involved and relays his/her findings and recommendations.
- 4. If an academic appeals panel is convened, it is composed of one dean (excluding the dean of the division involved in the appeal), appointed by the Provost; and two faculty members, appointed by the Faculty Senate. The designated dean chairs the panel, solicits appointment of the faculty representatives, convenes meetings of the panel, and provides copies of necessary documentation to the other panel members. Documentation includes:
 - a. The student's written statement and other material the student wishes to submit
 - A written summary of the disposition of the case at the division level, prepared by the division's dean
 - The student's transcript, or any other related materials the panel may wish to examine.
- 5. The chair will convene a meeting that includes the student, the members of the panel, and other participants the panel may choose to invite to the meeting. The student has an opportunity to present his or her concern, and the panel members have the opportunity to ask questions and seek clarification. If the panel determines there are issues involved which are not academic concerns, the panel informs the student of appropriate measures to be taken.
- The panel may, at its own discretion, refer the matter to the Academic Policies & Curriculum Committee (APCC) for advice and recommendations.
- 7. If the APCC is convened to review the appeal, the panel chair must ensure that all related documentation is submitted to the APCC chair one week prior to the APCC meeting. Any recommendations made by the APCC are submitted to the academic appeals panel for consideration.

8. The chair of the academic appeals panel forwards a recommendation along with all related documentation to the Provost. The Provost makes the final determination regarding the appeal and notifies the dean of the division involved in the appeal. That dean communicates this determination to the student who initiated the appeal.

Absence for Participation in School Sponsored Activities

If a student must miss class because he or she is participating in a Cincinnati State sponsored co-curricular event (such as an athletic contest or a meeting of a professional organization), the absence should be treated as excused and should not have a negative impact on the student's attendance grade for the course.

Students are responsible for providing their instructors with appropriate documentation prior to the event. Students must also make up any required work through a process and on a schedule to be determined by the course instructor.

It is understood that this waiver applies only to the attendance grade, and not necessarily to other components of the instructor's grading system.

Absence for Religious Observance

Students are permitted to be absent from class to observe a religious holiday. It is the student's responsibility to notify instructors of this planned absence no later than the end of the first week of the academic semester. It is also the student's responsibility to make up any required work through a process and on a schedule to be determined by the course instructor.

Adding, Dropping, or Withdrawing from a Course

The Registrar's Calendar of Important Dates (https://cincinnatistate.edu/academic-calendar), available on the College website, lists the dates when students may add, drop, or withdraw from a course after completing their initial registration. Student transactions to add, drop, or withdraw from a course are not official unless processed using the MyServices section of the Cincinnati State website or through the Office of the Registrar.

The appropriate forms and instructions for registration activity can be obtained in the Office of the Registrar or in the Registration (https://cincinnatistate.edu/academics/registration) section of the College website.

The following procedures apply to full-semester courses with start and end dates that coincide with the first and last days of the regular semester schedule.

Flexibly scheduled courses (with start and/or end dates that do not coincide with the first and last days of the regular semester schedule) use similar procedures, but may have a different timeline. More information is available from the Office of the Registrar.

Adding a full-semester course

 Prior to the first course meeting of the semester, no approval is required to add an open course, unless the course has an "instructor consent" requirement.

- Once a course has met, the approval of the course instructor must be obtained.
- The fifth class day of the semester is the last day to add a course.

Dropping a full-semester course

- Courses dropped from the time of registration through the fourteenth calendar day of the semester do not need additional approval to be processed.
- The fourteenth calendar day of the semester is the last day to drop a course. In an instance when the fourteenth day falls on a weekend or holiday, the last day to drop a course is the preceding business day.

Withdrawing from a course - available online via MyServices

- The withdrawal period for full-semester courses begins each semester the day after the last day to drop a course (14th calendar day of the semester) and ends on the fifty-sixth instructional day.
 No additional approval is required to withdraw from a course during this period.
- The withdrawal period for flexibly scheduled courses begins after the day designated as the Last Day to Drop a Course for that course section, through the day designated as the Last Day to Withdraw from that course section. More information is available from the Office of the Registrar.
- Only in circumstances beyond the student's control will a
 withdrawal be permitted after the fifty-sixth instructional day. All
 official late withdrawals must be approved by the course instructor
 and the division dean.
- In cases where late withdrawal is not approved, the student receives the grade assigned by the instructor.

Attendance

Each student is expected to attend all classes and cooperative education/clinical placements as scheduled. Each College faculty member is expected to document student attendance during the first two weeks of the semester and to report attendance and non-attendance to the Office of the Registrar. Attendance in cooperative education and clinical placements is reported by the cooperative education/clinical coordinator based on reports from the student's site coordinator.

Individual faculty members may establish course policies that consider attendance as a factor in determining course grades. These policies may include limits and/or penalties related to excused and/or unexcused absences. Students should check with all of their instructors to determine how attendance will be taken, and in what ways, if any, attendance is a factor in grading.

Non-Attendance

The following policies pertain to all courses.

Instructors are required to document student attendance in each
course section for all class sessions held during the first two weeks
of the semester. For courses that do not meet for the full semester
(i.e., flexibly scheduled course sections) the attendance reporting
period will vary based on the course's structure. Please consult the
College's Important Dates Chart (https://www.cincinnatistate.edu/

- academic-calendar) or the Office of the Registrar for information on when non-attendance is reported for these courses.
- From the first day of the semester until the First Day to Withdraw for the semester, students who drop a course must identify whether or not they attended the course section.
- A student who enrolls in a course but does not attend the course during the stated no-show period will be designated a No Show (NS) and dropped from the course by the instructor.
- If there is a discrepancy between a student's self-reported attendance status and the attendance status reported by an instructor, the attendance status reported by the instructor will be the status of record.
- Students are not permitted to begin attending a course section after an NS has been issued by the instructor or self-reported by the student for that course section.
- The designation of NS will not appear on the student's transcript.
- A student who receives an NS designation for a course is still
 financially responsible for payment for the course. State and
 federal financial aid is not applicable to a course for which a
 student has received an NS designation.
- A student is not permitted to withdraw from a course he or she did not attend or to which an NS has been assigned.

Non-Attendance in Web-based and Hybrid Courses

Students enrolled in courses classified as WEB (web-based; no inperson attendance required) or HYB (hybrid; primarily web-based but with some required in-person activities) must log in to the course website during the stated no-show period of the semester and participate in an online activity.

Participation in an online activity includes, but is not limited to, submitting an academic assignment; taking an exam, completing an interactive tutorial, or completing computer-assisted instruction; participating in an online discussion about academic matters; and/or initiating contact with a faculty member to ask a question about the academic subject studied in the course.

A student who is enrolled in the course but does not log into the course website during the first two weeks of the semester will be designated as No Show (NS) by the instructor. All other policies described in the Cincinnati State catalog section above on "Non-Attendance" apply to students in WEB and HYB courses also.

In some cases, the website for a WEB or HYB course will be open to students prior to the first day of the semester. Student activities on the website prior to the first day of the semester will be used to determine whether an NS designation is given.

Non-Attendance Leading to Administrative Withdrawal

The following policies pertain to all courses.

- A student who is enrolled in a course and does not attend any class sessions of that course for the consecutive equivalent of 20% of the total course length, at any time during the semester, may be administratively withdrawn from the course.
- Faculty members who implement this policy will include information in their course syllabus explaining how attendance is taken and

stating that the consecutive equivalent of 20% of the total course length of non-attendance will lead to administrative withdrawal.

- Faculty members who implement this policy will inform the academic Dean (of the division that offers the course) of the last date of attendance for any student who does not attend course sessions for the consecutive equivalent of 20% of the total course length.
- The Dean will notify the Registrar to administratively withdraw the student from the course.

Children on Campus

Cincinnati State Technical and Community College strives to maintain an environment conducive to teaching and learning. Therefore, whenever children are brought to campus they must remain with their parents, guardians, or caretakers in all areas of the College. Whether or not a child can be brought into a classroom is at the discretion of each instructor.

If the College's Campus Police Department finds any child left unattended, they will locate the parent/caretaker so the child can be cared for properly. Above all else, the College wishes to ensure the safety and well-being of each child.

Course Cancellation

A course offering may be canceled prior to the beginning of a semester because of low enrollment. The College attempts to notify students of the course cancellation before the first day of the semester, but cannot guarantee that such notice will be provided.

A refund of 100% of tuition and lab/course fees is made to a student who has registered for a course that is cancelled by the College, if the student does not change to another course.

Course Drop/Withdrawal Grading Policy

- Courses officially dropped through the fourteenth calendar day of each semester, using official processes described elsewhere in this catalog, do not appear on a student's transcript.
- During the Withdrawal Period (the fourteenth day through the fiftysixth day of each semester), official withdrawals are assigned a grade of W. The W appears on the student's transcript; however, it is not calculated into the grade point average (GPA).
- The instructor may not issue a W as the final grade. A W is assigned only if the student completes the withdrawal process.

Expectations for Time Required Outside of Class

The amount of time required to complete homework for Cincinnati State courses will vary, depending on the course topic and level, as well as the student's prior preparation.

Homework for college courses may include reading; writing essays, reports, or other papers; studying for quizzes and exams; preparing project materials; meeting with others to complete course activities; and a wide range of other tasks.

As a general guideline, students should plan to spend at least two to three hours outside of class each week for each course contact hour (that is, either a lecture hour or a lab hour). For example, a student enrolled in a course that has two lecture hours per week and three lab

hours per week should plan to spend 10 to 15 hours per week outside of class completing work for that course.

It is the student's responsibility to plan a schedule that allows adequate time to complete the work required for each class. Students should seek additional information from their instructors regarding expectations for the time needed to complete all coursework.

Faculty Office Hours

All full-time College faculty members maintain office hours to conduct in-person meetings with students. Some faculty members also maintain online office hours for communication with students by email or other methods designated by the instructor.

Students should check with each instructor, or the receptionist in the instructor's division office area, to schedule appointments. In most instances, students should use the Starfish online system to schedule appointments.

Flexibly Scheduled Courses

The following policies and procedures pertain to flexibly scheduled course sections only:

- Course sections with a beginning and/or ending date different than the first and last days of the regular semester schedule are considered flexibly scheduled. Flexibly scheduled course sections are typically identified in the course schedule with alphabetical section designations.
- Students may register for a flexibly scheduled course section with no additional approvals, up to the time of the first course meeting.
- A student may enter a flexibly scheduled course section by the date established as the Last Day to Add for that course section.
 Registration after the date established as the Last Day to Add for that flexibly scheduled course section is not permitted.
- A student may drop a flexibly scheduled course section, without a grade appearing on their record, by the date established as the Last Day to Drop a Course for that course section.
- A student may withdraw from a flexibly scheduled course section from the date established as the Last Day to Drop a Course for that section through the date established as the Last Day to Withdraw from a Course for that section.

Making Up Missed Work

The privilege of making up missed assignments, quizzes, tests, exams, and other course activities is not automatic. An instructor does not have to permit or grant make-up privileges. It is the student's responsibility to be aware of the instructor's make-up policies, and to seek this information from the instructor if necessary.

MyServices

MyServices is the pathway to web-based student services at Cincinnati State. Through MyServices, students can register, add, and drop classes; view and print their class schedules; make payments; check on financial aid status; view and print their grade reports; view and print degree audits; and access a variety of other services.

To access MyServices, go to the Cincinnati State website (https://cincinnatistate.edu) and then choose MyCState. Log in with username and password, and then choose the MyServices tab.

Procedures for Students Called to Active Duty

Students enlisted in the military reserves or National Guard who are called to active duty may drop or withdraw from all courses. This may be accomplished in person, by email, by fax, or by mail.

Students called to active duty must complete the following steps:

- Provide the Office of the Registrar with a copy of the military orders. The student may deliver the copy of the orders to the Office of the Registrar, mail it to Office of the Registrar, 3520 Central Parkway, Cincinnati OH, 45223; fax it to (513) 569-1883; or email to registraroffice@cincinnatistate.edu.
- Request to be dropped from all courses. If this is accomplished inperson, the student completes the Registration Activity Request form. For fax, mail, or email requests, staff in the Office of the Registrar may complete the appropriate form on the student's behalf.
- Indicate to the Office of the Registrar whether he/she attended any class sessions.
- If the student attended class sessions, he/she must provide the last date of attendance for each course to be dropped.
- In some instances, time constraints may prevent the student from completing a Late Withdrawal request. In this case, the student may present the military orders within 30 business days of his/her return to receive Late Withdrawal. The Office of the Registrar does not accept Requests for Late Withdrawal after that time period.

Requesting College Transcripts from Cincinnati State

To obtain a copy of a Cincinnati State transcript, students should complete the Transcript Request Form (https://cincinnatistate.edu/academics/registration/transcripts) available on the College website, and turn in the form in person at the Registrar's Office (Clifton Campus), online (using MyServices if they are an active student), by mail, or by fax. Students may also email the form to the Registrar's Office, as an attachment to an email message.

All requests for transcripts must include either the Transcript Request Form or all of the following information: name, student ID or Social Security number, approximate dates attended, and the address to which the transcript should be sent. Requests must include the student's signature authorizing the College to release this information.

To request or pick up a transcript in person, the Office of the Registrar (Clifton Campus) is open Monday through Thursday from 8 a.m. to 6 p.m. and Friday from 8 a.m. to 4:30 p.m. When requesting or picking up transcripts in person, a valid photo identification or a SurgeCard is required.

To request transcripts by mail, please mail the request to: Office of the Registrar Cincinnati State Technical and Community College 3520 Central Parkway Cincinnati, OH 45223-2690

The Transcript Request Form may be faxed to (513) 569-1883.

The Transcript Request Form may be scanned and emailed as an attachment to transcripts@cincinnatistate.edu.

Please note:

- Students who attended Cincinnati State after 1986 may request an official transcript be printed in-person at the Office of the Registrar.
- Students may request a transcript to be sent directly from the Office of the Registrar to an individual or other institution designated by the student. Please allow three to seven working days for staff to process such requests.
- Because records prior to 1986 may be on microfilm, allow seven to ten working days for staff to process such requests.

For questions regarding ordering transcripts, please call the Office of the Registrar at (513) 569-1522.

All financial obligations to the College must be cleared before any transcripts are released.

Student Recording and Distribution of Course Lectures and Materials

Students may not photograph, record (using audio or video technology), duplicate, reproduce, transmit, distribute, or upload or share via internet or website environments any class lectures, discussion, and/or other course materials, unless written permission has been obtained in advance from the instructor.

In the case of class discussions and/or presentations, permission must also be obtained from all students in the class and any guest speakers, if applicable. All participants must be informed in advance that activities will be recorded.

Students should review the course syllabus for instructions regarding the instructor's policy on class recordings. Unless directly authorized by the syllabus, any student wishing to record classroom activities must discuss this issue with the instructor and obtain written permission.

Any photograph or recording of class activities and/or materials is authorized solely for use as an educational resource by an individual student or, when permission is granted, with other students enrolled in the same class. Photographs and/or recordings may not be publicly exchanged, distributed, shared, or broadcast for any purpose.

Permission to allow a photograph or recording is not a transfer of any copyrights.

Violation of this policy may subject a student to disciplinary action under the College's Student Code of Conduct (p. 210).

Exception: it is not a violation of this policy for a student determined by the Office of Disability Services to be entitled to educational accommodations to exercise any rights protected under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, including needed recording or adaptations of classroom lectures, discussions, and/or course materials for personal research and study. However, all other restrictions on other use and/or distribution apply in such cases.

Weather-Related Cancellation or Delay of Classes

In the event of adverse conditions, it may be necessary to cancel some class sessions. The College will rarely close completely. Local radio and television stations may begin announcing Cincinnati State's

operating status as early as 6:15 a.m. on the day involved, or the prior evening (depending on the weather situation). When adverse weather conditions begin to occur during a day the College is open for standard operations, the status of day and/or evening classes will be handled by an announcement during the day.

When the College announces a "late start," classes that occur prior to the delayed start time are canceled. However, if a class has at least 50 minutes remaining after the delayed start time, students should attend that class. For example, if a student's class meets from 9 to 10:50 a.m., and the College announces a delayed start time of 10 a.m., students should attend that class beginning at 10 a.m.

It is the student's responsibility to be aware of their instructors' policies and procedures for dealing with weather-related cancellations and delays, and to seek this information from their instructors if necessary.

Academic Integrity Policy

Ethical conduct is the obligation of every member of the Cincinnati State community. Violations of academic integrity constitute serious breaches of ethical behavior. Academic integrity requires that all academic work be wholly the product of an identified individual.

Violations of Academic Integrity

The following acts of academic misconduct are subject to disciplinary actions as described below. Additional student responsibilities are described in the Cincinnati State Student Code of Conduct (p. 210), published elsewhere in this Catalog.

Cheating: Cheating includes, but is not limited to:

- Use of any unauthorized assistance in taking quizzes, tests, or examinations, or completing assignments.
- Dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing assignments.
- The acquisition, without permission, of tests or other academic materials belonging to a member of the College faculty or staff.
- Copying computer files, text, or images of other students or downloading information from the internet and representing this work as one's own.

Fabrication: The falsification or invention of any information or citation in an academic exercise. "Invented" information may not be used in any laboratory experiment or other academic exercise without authorization from the instructor. For example, it is improper to analyze one sample in an experiment and covertly "invent" data based on that single experiment for several more required analyses.

Facilitating academic dishonesty: Knowingly or negligently allowing one's own work to be used by other students or otherwise aiding in academic dishonesty.

Plagiarism: The representation of the words or ideas of another as one's own in any academic exercise. To avoid plagiarism, every direct quotation must be identified by quotation marks or by appropriate indentation and must be properly cited in the text or in a footnote. Acknowledgement is required when material from another source is paraphrased or summarized in whole or in part in one's own work. The correct form for documenting direct quotations and for acknowledging paraphrased material may be found in numerous writing manuals or

handbooks. The English Department at Cincinnati State endorses the MLA style. However, some instructors may require other types of documentation. Students should refer to the instructor's syllabus and other course materials for guidance on the proper documentation style.

Denying others access to information or material: Denying others access to scholarly resources or deliberately impeding the progress of another student. Examples of offenses of this type include giving other students false or misleading information, making library material unavailable to others by stealing or defacing books or journals, or by deliberately misplacing or destroying reserved materials, stealing another's paper or project, or altering computer files that belong to another person.

Academic Integrity Violations Procedure

If an instructor has reason to believe a violation of academic integrity has occurred, the procedure will start in the classroom as outlined by the instructor's syllabus. Penalties imposed by the instructor are limited to those actions whose ramifications fall within the confines of the class, i.e., failure of the assignment or failure of the course. Only the Provost can impose suspension or dismissal from the College. The instructor has the option of filing a report of the incident with the Provost for documentation purposes.

The instructor may proceed with a formal charge of academic dishonesty and recommended sanctions to the Provost. The Provost may administer the disciplinary action recommended by the faculty member or a penalty deemed more appropriate. If the student accepts the charge, the Provost will assign sanctions, and the case will be closed. If the student challenges the finding of the Provost and maintains his/her innocence, the case will move forward to an Academic Integrity Panel. The student must submit the challenge to the Provost within five working days of the Provost's notification of sanctions.

The Academic Integrity Panel consists of:

- Two students appointed by the Student Senate
- Two faculty members appointed by the Faculty Senate
- · One dean appointed by the Provost

The case will be heard within 10 working days of receipt of the student's written challenge.

The student accused of Academic Dishonesty may be accompanied at the Academic Integrity hearing by a person or persons of his/ her choice, not to exceed three individuals. The role of the persons accompanying the student is limited to providing support to the student. Individuals accompanying the student may not present information or answer questions in place of the student.

- Both the Academic Integrity Panel and the student may call witnesses for the hearing.
- All hearings will be closed.

The decision of the Academic Integrity Panel regarding the Academic Dishonesty violation is reached by majority vote in a session of panel members only. The decision of the panel is communicated in writing to the Provost, along with recommended sanctions, within 10 working days of the final day of panel hearings. The findings of the Academic Integrity Panel and penalty administered by the Provost are final.

Penalties

Possible sanctions are described in the Cincinnati State Student Code of Conduct. They include:

- Warning
- Probation
- · Loss of privileges
- Fines
- Restitution
- · Discretionary sanctions
- · College suspension
- · College expulsion

In each case of academic dishonesty that is brought forward to the Provost, the Provost or the Academic Integrity Panel determines the disciplinary action to be taken. The Provost administers the disciplinary action

Grading Policies

Grade Reports

Course grades are available to students at the end of each semester through the MyServices section of the College website. It is the student's responsibility to check his or her grades for accuracy. Any errors, discrepancies, or omissions should be reported to the instructor and/or division dean responsible for the course. Student concerns about grades should be made known within 30 days of the end of the semester for which the grade was issued. (See Academic Appeals Procedures (p. 195) elsewhere in this catalog.)

Grade Changes

Changes to course grades must be initiated by the instructor who issued the grade, and must be submitted to the appropriate division dean for approval no later than two semesters after the semester in which the grade was originally issued. The division dean forwards all approved grade changes directly to the Office of the Registrar for processing.

Grading Standards

The College does not have a universal policy or standard for determining grades for courses or assignments. Grading policies and procedures are the prerogative of each instructor. In some instances, academic departments or programs have established grading standards that apply to a particular course or group of courses. It is the student's responsibility to be aware of their instructors' grading policies, and to seek this information from the instructor if necessary.

Grading System and Credits Earned

The following system is used to record student achievement or status in courses:

Grade Point Value

| Grade | Explanation | Grade Point Value Per Credit Hour |
|-------|-------------|--------------------------------------|
| Α | Excellent | 4.000 |
| В | Good | 3.000 |

| С | A. (0.000 | 2.000 |
|----|---|--------------|
| - | Average | 2.000 |
| D | Poor | 1.000 |
| F | Failure to complete course requirements | 0.000 |
| W | Withdrawal | Not Computed |
| AC | Advanced Placement Exam | Not Computed |
| CL | CLEP Credit | Not Computed |
| EC | Cincinnati State Proficiency Examination Credit | Not Computed |
| EL | External Certificate/ Learning Exam | Not Computed |
| ET | External Formal Training Program | Not Computed |
| EX | Work Experience Credit | Not Computed |
| I | Incomplete | Not Computed |
| IP | Incomplete S/U | Not Computed |
| K | Transfer Credit | Not Computed |
| N | No Grade Reported | Not Computed |
| S | Satisfactory | Not Computed |
| TP | Tech Prep Credit | Not Computed |
| U | Unsatisfactory | Not Computed |
| VO | Vocational Teacher Referral Credit | Not Computed |
| X | Audit | Not Computed |

Calculation of Grade Point Average (GPA)

Cumulative GPA is calculated as the total quality points earned (grade point value per credit hour, listed above) divided by the total credit hours attempted for courses bearing quality points at the College.

Semester GPA is calculated as the total quality points earned divided by the total credit hours attempted for courses bearing quality points for the semester.

Program GPA is calculated as the total quality points earned divided by the total credit hours attempted for all courses bearing quality points listed in the student's current Degree Audit curriculum. The Degree Audit curriculum is the list of requirements the student must complete in order to earn a degree or certificate. See Graduation Requirements (p. 204) elsewhere in this catalog for additional information.

Academic Foundations courses and English as a Second Language courses (with course numbers in the format AFL 0XX, AFM 0XX, or ESL 0XX) are not calculated in the GPA.

Incomplete (I or IP)

A grade of I (incomplete) or IP (incomplete for classes graded on a pass/fail basis) is awarded at the discretion of the instructor. When unusual circumstances prevent a student from completing course requirements during the semester in which the student is enrolled, the instructor may agree to record a grade of I or IP until the final grade is established. Timetables and requirements for the completion of the course are the instructor's prerogative. If a final grade has not been submitted to the Office of the Registrar by the last instructional day

of the following semester, a grade of F or U (as applicable) will be automatically recorded.

Satisfactory/Unsatisfactory Grades (S/U)

The grade of S represents satisfactory performance, or passing, in those courses graded satisfactory/unsatisfactory. Only the grades of C or higher are considered passing in the satisfactory/unsatisfactory system.

No Grade Reported (N)

An N grade is administratively assigned by the Office of the Registrar if no grades are reported by the instructor for an individual student or for an entire section of a course. A grade of N is not issued to individual students by the instructor.

Official Course Withdrawal (W)

Students who withdraw from a full-semester, regularly-scheduled course after the Last Day to Drop a Course for the semester through the Last Day to Withdrawal receive a grade of W for the course. Students who withdraw from a flexibly-scheduled course after the day designated as the Last Day to Drop a Course for that course section through the day designated as the Last Day to Withdraw from that course section receive a grade of W for the course. A W grade is not computed in the student's GPA.

Non-Attendance Leading to Administrative Withdrawal

The following policies pertain to all courses.

- A student who is enrolled in a course and does not attend any class sessions of that course for the consecutive equivalent of 20% of the total course length, at any time during the semester, may be administratively withdrawn from the course.
- Faculty members who implement this policy will include information in their course syllabus explaining how attendance is taken and stating that the consecutive equivalent of 20% of the total course length of non-attendance will lead to administrative withdrawal.
- Faculty members who implement this policy will inform the academic Dean (of the division that offers the course) of the last date of attendance for any student who does not attend course sessions for the consecutive equivalent of 20% of the total course length.
- The Dean will notify the Registrar to administratively withdraw the student from the course.

Audit (X)

Students interested in taking a course without receiving a grade or credit may register to audit the course. No college credit may be earned or later claimed for an audited course. Regular tuition is charged for courses being audited. Requirements for attendance, completion of assignments, and examinations are the prerogatives of the instructor of the course.

A student may not request a transfer from credit to audit or vice versa after the Last Day to Drop a Course for the semester.

Dean's List/Academic Merit

Students who earn in one semester 12 or more credit hours for academic courses for which quality points are awarded will qualify for Dean's List status if their GPA for the current semester is 3.5 or greater and no grades of I, F, or U have been earned in the current semester. Academic Foundations courses are not included in GPA calculations for the Dean's List.

Students who earn in one semester between six and 11 credit hours for academic courses for which quality points are awarded will qualify for Academic Merit status if their GPA for the current semester is 3.5 or greater and no grades of I, F, or U have been earned in the current semester. Academic Foundations courses are not included in GPA calculations for Academic Merit.

Students who receive a grade of N will not initially be eligible for Dean's List or Academic Merit. To be eligible for Dean's List or Academic Merit, the grade change for the N grade must be submitted to the Office of the Registrar by the end of the tenth instructional day of the following semester. Grade changes for N grades submitted after the tenth instructional day of the following semester will not be recalculated for Dean's List or Academic Merit status. Recalculation for Dean's List and Academic Merit status will be done only for N grades issued for the immediately preceding semester and only if the grade changes are submitted by the deadline.

Academic Probation, Suspension, and Dismissal

Cincinnati State students enrolled in a degree or certificate program must demonstrate satisfactory performance to remain in good academic standing at the College. Students who do not demonstrate satisfactory performance will be placed on academic probation. If the work of a student on probation does not improve, the student may be subject to academic suspension and then academic dismissal from the College. A student cannot graduate from a degree or certificate program while on academic probation or academic suspension.

(Note: Standards of satisfactory progress as applied to a student's financial aid award are described in the Satisfactory Academic Progress (SAP) Policy (p. 186) section of this Catalog.)

Academic Warning

Students will be placed on academic warning if at least one of these conditions has occurred:

- The student has attempted 12 or more college level credits and has a semester GPA below 2.0
- The student has earned a semester grade of F in one Academic Foundations course or English as a Second Language course

A student on academic warning must meet with an advisor prior to registering for classes.

Academic Probation

Students will be placed on academic probation if at least one of these conditions has occurred:

 The student has attempted 12 or more college level credits and has a cumulative GPA below 2.0 The student has earned a semester grade of F in more than one Academic Foundations course or English as a Second Language course

A student on academic probation must:

- Meet with an advisor prior to registering for classes. The number of credits for which the student may register will be determined in consultation with the advisor, up to a maximum of 12 credits.
- Develop a plan for achieving academic success. This plan may be completed during an advising appointment or as part of other activities the College may offer.
- Register for classes during the On Time Registration period. Students on academic probation are not permitted to register during the Late Registration period.

Academic Suspension

Students will be placed on academic suspension when one of these conditions has occurred:

- A student who is on academic probation due to a cumulative GPA below 2.0 earns a semester GPA below 2.0 in the subsequent semester.
- A student who is on academic probation due to failing more than one Academic Foundations or English as a Second Language course in a semester fails another Academic Foundations or English as a Second Language course in the subsequent semester.

A student on academic suspension may not register for any courses at Cincinnati State for two semesters, and may not represent the College or participate in College-sponsored activities, except activities intended to help the student improve his or her academic performance.

A student may appeal the academic suspension through a written request to the Provost. The written request must include a rationale for the appeal and supporting documentation. The decision of the Provost is final.

Returning after Academic Suspension

A student who is returning to the College after academic suspension must adhere to the following conditions:

- The student must meet with his or her program chair or academic advisor to determine a plan for academic success
- The student must have permission from his or her program chair or academic advisor before registering for any classes
- The student must maintain a semester GPA of 2.0 or higher in every enrolled semester and must earn a grade of C or higher in all Academic Foundations and English as a Second Language classes. The student will continue to be considered on academic probation as long as the student's cumulative GPA is below 2.0.

In addition, it is strongly suggested that the student schedule an Academic Counseling session in the Counseling Center.

Academic Dismissal

Cincinnati State expects students to demonstrate continued academic success while enrolled at the College. A student who has returned to the College after academic suspension and is still on probation (because of a cumulative GPA below 2.0) is expected to raise his or her cumulative GPA to 2.0 or higher by the time the student has

earned 24 additional credits. Failure to attain a cumulative GPA of 2.0 or above after returning from academic suspension and completing 24 additional credits will result in academic dismissal.

A student who has been academically dismissed may not register for any courses for a period of three semesters.

A student may appeal the academic dismissal through a written request to the Provost. The written request must include a rationale for the appeal and supporting documentation. The decision of the Provost is final

Cooperative Education Program Policies

The cooperative education program is an integral part of Cincinnati State's past growth, current strength, and continued success. The College's commitment to cooperative education and other forms of experiential education is reflected in the curricula of most of the associate's degree programs.

Co-op Education Requirements

Cincinnati State values the cooperative education experience. Each division of the College establishes its own policies regarding how students may fulfill co-op requirements. Students should refer to the academic division sections of this catalog for additional information.

Co-op Registration Policy

- No student may report to his or her co-op job until he or she has registered for the appropriate co-op course and paid for the course.
- A student failing to register for co-op is not eligible to receive co-op credit for that semester.
- Employers of co-op students who fail to register for co-op are
 notified by the co-op coordinator that the student no longer has
 co-op status. The employer has the option to allow the student
 to continue to work full-time without co-op status or to terminate
 employment. This decision is made by the employer.

Academic Eligibility Requirements for Co-op

To be eligible for placement in cooperative education employment (or comparable clinical experience/directed practice), students must be fully admitted into their academic program and maintain the required grade point average (GPA) as stated in the College Catalog (see the Academic Probation, Suspension, and Dismissal (p. 201) section of this Catalog). Students must also demonstrate satisfactory proficiency in core or other required courses. Students who do not maintain the required GPA are not eligible for cooperative education or clinical experience/directed practice without the permission of the program's co-op coordinator. Refer to the division sections of this Catalog for additional requirements.

Students are also encouraged to attend a Co-op Orientation session, where students learn about the co-op requirements for various degree programs and the options for fulfilling these requirements, along with qualifications for a co-op experience and co-op course registration procedures.

Obtaining Co-op Education Assignments

The College has been quite successful in placing students in cooperative education jobs; however, there is no absolute guarantee of initial or continuing employment. The employer is solely responsible for decisions about hiring, retention, dismissal, promotion, or demotion of a cooperative education student. Initial and continuing employment depends on the skills, aptitudes, and behaviors the individual student offers to each potential employer.

Withdrawal From Co-op/Clinical Experience

If a student is removed from a cooperative education or clinical experience course due to unsatisfactory performance, and the student subsequently withdraws from that course, the faculty member responsible for the course, with the approval of the division dean, may remove the W and assign a grade of U (unsatisfactory) or F (failure).

Graduation Requirements

Graduation Requirements

To qualify for an associate's degree, a student must be admitted to a degree program, complete the program requirements as identified in the Degree Audit curriculum, attain at least a 2.0 cumulative and program grade point average (GPA), and submit a petition to graduate. Completion is defined as earning the grade A, B, C, D, or S for any course. An earned D may not count toward graduation, depending on program and/or division policies.

To qualify for a certificate, a student must be admitted to a certificate program, complete the program requirements as identified in the Degree Audit curriculum, attain at least a 2.0 cumulative and program GPA, and submit a petition to graduate. Completion is defined as earning the grade A, B, C, D, or S for any course. An earned D may not count toward graduation, depending on program and/or division policies.

General Education Requirements

Students seeking the degree Associate of Applied Business (AAB), Associate of Applied Science (AAS), Associate of Individualized Study (AIS), or Associate of Technical Study (ATS) degree should consult the curriculum for their program, published elsewhere in this Catalog, to determine how the general education requirements should be met. Individual degree programs may require students to complete program-specified general education courses, or may permit students to choose some general education elective courses.

Transfer credit for social sciences or humanities courses completed at another institution, in disciplines not listed below, may be applied toward Cincinnati State graduation requirements, with the program chair's and division dean's permission.

As part of the graduation requirements for the Associate of Applied Business (AAB), Associate of Applied Science (AAS), Associate of Individualized Study (AIS), and Associate of Technical Study (ATS) degrees, a student must complete at least 15 credit hours in general education areas, distributed as follows:

| Communication Skills | 6 |
|--|--------------|
| | credits |
| Arts/Humanities, Natural Sciences, and Social Sciences | 6 credits |
| Mathematics | 3 |
| | credits |

Communication Skills - 6 credits

| department | department code |
|---------------------------------|---------------------|
| 6 credits Written Communication | department code ENG |

Arts/Humanities, Natural Sciences, Social Sciences - 6 credits selected from two of these areas:

Arts/Humanities, including:

| department | department code |
|-------------------|-----------------------------------|
| Art | department code ART ² |
| Communication | department code COMM ¹ |
| Culture Studies | department code CULT |
| Foreign Languages | department code FRN,SPN |
| Literature | department code LIT |
| Music | department code MUS ² |
| Philosophy | department code PHI |
| Religion | department code REL |
| Theatre | department code THE ² |

Excluding COMM 110

Natural Sciences, including:

| department | department code |
|-----------------------|---------------------|
| Biology | department code BIO |
| Chemistry | department code CHE |
| Environmental Science | department code EVS |
| Physics | department code PHY |
| Physical Science | department code PSC |

Social/Behavioral Sciences, including:

| department | department code |
|-------------------|---------------------|
| Economics | department code ECO |
| Geography | department code GEO |
| History | department code HST |
| Labor Relations | department code LBR |
| Political Science | department code POL |
| Psychology | department code PSY |
| Sociology | department code SOC |

Mathematics - 3 credits

| department | department code |
|-----------------------|---------------------|
| 3 credits Mathematics | department code MAT |

Students seeking the Associate of Arts or Associate of Science degree must meet the general education requirements described for these degrees elsewhere in this Catalog.

Excluding studio or performance-based courses.

College Orientation Requirement

All Cincinnati State students who enroll in a degree program are required to complete one college orientation course: FYE 100 College Survival Skills; FYE 105 College Success Strategies; or FYE 110 Community College Experience.

The orientation course must be completed as part of the first semester of classes taken at Cincinnati State. Students in the Cincinnati State Honors Program fulfill the orientation course requirement by completing HNR 100 Orientation to Honors.

Some certificate programs also require students to complete FYE 100 College Survival Skills, FYE 105 College Success Strategies, or FYE 110 Community College Experience. Each certificate program that requires completion of an orientation course is indicated in the curriculum published in this Catalog.

The orientation courses FYE 100 College Survival Skills, FYE 105 College Success Strategies, and FYE 110 Community College Experience introduce students to the college experience and to Cincinnati State's expectations and resources for new students. The orientation course earns college credit, but it does not fulfill core course requirements for degree or certificate programs.

Graduation Honors

Associate's degree candidates who earn at least 30 semester credit hours at Cincinnati State and achieve a cumulative grade point average of 3.500 or higher will graduate with honors. Honors are classified as follows:

| Cum Laude | 3.500 - 3.799 |
|-----------------|---------------|
| Magna Cum Laude | 3.800 - 3.899 |
| Summa Cum Laude | 3.900 - 4.000 |

Honors designations in the printed program at the commencement ceremony are projected based on cumulative GPA calculations made at the end of the Fall semester. The student's GPA at the conclusion of their degree requirements will determine the final honors designation.

Graduation Process

The Office of the Registrar is responsible for monitoring student progress in completing degree and certificate requirements.

Students will be graduated at the end of the semester in which they complete all requirements for a degree or certificate. A student cannot reverse their graduated status after it has been conferred by the Office of the Registrar.

A student who graduates will receive his/her diploma or certificate by mail after the conclusion of the semester when requirements were completed.

Note: Graduation conferred by the Office of the Registrar is not the same as participating in the College's annual Commencement ceremony. See Participation in Commencement, below.

Registrar's notification to pending graduates: Students will receive email notification from the Registrar during the sixth week of the semester in which they are enrolled in the courses needed to complete their degrees or certificate. The notification will confirm that pending

successful completion of those courses, the student will graduate from applicable degree or certificate programs.

If a student does not wish to graduate, for any reason, he/she may opt out for the current semester. The student will automatically be placed in the group of those eligible for graduation at the end of the next semester.

Graduation petition: Students who believe they are eligible for graduation at the end of the current semester who do not receive notification from the Office of the Registrar can complete a "Petition to Graduate" eform available through MyServices. The Registrar and the appropriate academic Program Chair will review the petition and the student will be notified of the petition outcome.

Student preparation for graduation: During the semester when they expect to complete their final courses required for graduation, students should:

- Check My Profile in MyServices to make sure these items are accurate:
 - academic degree and/or certificate programs
 - · mailing address
- Monitor Cincinnati State email for communication from the Registrar regarding graduation.

Participation in Commencement

A student may participate in the annual commencement ceremony if he or she meets all of the following requirements:

- The student will satisfactorily complete all requirements for an associate's degree during or before the semester immediately preceding commencement, or the student can complete all remaining degree requirements during the semester immediately following commencement. The ability to complete requirements in the semester immediately following commencement is defined as needing no more than 15 credits, which may include the final cooperative education, clinical, or internship placement.
- Students earning a certificate which requires 30 or more credits may participate in commencement if all certificate requirements will be completed during or before the semester immediately preceding commencement.
- The student has submitted a petition to graduate to the Office of the Registrar, by the published deadline applicable to the semester when the student will complete all degree requirements.
- The student has submitted an Intent to Participate in Commencement form online in MyServices by the published deadline.

Program Graduation Requirements (Degree Audit Curriculum)

Requirements for each degree and certificate program at Cincinnati State are published each year in this Catalog. A student is expected to fulfill the requirements in effect for the catalog year in which they are admitted to the program. This set of requirements may be referred to as the student's Academic Evaluation or Degree Audit curriculum. Students can review a copy of their Degree Audit curriculum using the MyServices section of the Cincinnati State website.

A student readmitted to the College after an absence of a year or more is expected to fulfill the requirements in effect at the time

of readmission. Any course substitutions or waivers granted prior to readmission will not carry forward and apply toward the new requirements. Students who requested course substitutions or waivers previously must request them again and ask that they be applied toward the new catalog year.

Students should consult their program chair or academic advisor to discuss any changes made to program requirements that could affect progress toward completing the degree or certificate program.

In situations where coursework is five years old or older, or where requisite skills may have been lost, courses previously taken are subject to review by the program chair and dean. Those courses reviewed that do not meet current program requirements and standards will not count toward degree or certificate requirements.

Using the Same Course to Meet Multiple Degree or Certificate Requirements ("Double Dipping")

In determining the credits earned for a degree or certificate, a single course cannot be used to satisfy two different requirements for one degree or certificate. Courses designated in the College catalog as "repeatable for credit" may be applied as appropriate to satisfy differing degree/certificate requirements.

A student who previously completed a degree or certificate at Cincinnati State, and is now earning a different degree or certificate, may be able to apply courses completed for the previous degree or certificate to the requirements for the current degree or certificate.

Students should consult with their program chair or academic advisor to ensure that courses are appropriately applied to meet degree or certificate requirements.

Residency Requirement for Certificate Programs

To qualify for a certificate, students must be admitted to a certificate program, fulfill the certificate program requirements, complete a minimum of 50 percent of their certificate program requirements at Cincinnati State, attain at least a 2.0 cumulative and program GPA, and submit a petition to graduate.

Residency Requirement for Degree Programs

Students seeking a degree at Cincinnati State Technical and Community College, except those seeking the Associate of Technical Study or Associate of Individualized Study degrees, must complete at least 30 credit hours of college-level, non-co-op/non-clinical credit hours at Cincinnati State. Credit hours earned in courses which combine class and lab hours will be considered non-clinical credit hours for the purpose of the residency requirement.

Students seeking an Associate of Applied Business or Associate of Applied Science degree must earn a minimum of 15 credit hours of college-level, non-co-op-/non-clinical technical coursework (as identified in the associate's degree program Academic Evaluation) required for their program at Cincinnati State. The resident credit hours required for the degree program are applicable to the College residency requirement.

Advanced standing credit is not applicable to the College residency requirement. Credit earned at Cincinnati State through the Greater Cincinnati Collegiate Connection (formerly the Greater Cincinnati Consortium of Colleges and Universities) is applicable to the College residency requirement.

In Associate of Technical Study and Associate of Individualized Study programs, the residency requirement is that no fewer than 20 credits must be completed at Cincinnati State.

Students who transfer to Cincinnati State from another accredited Ohio college or university with a completed Transfer Module are subject to the guidelines in the State of Ohio Policy for Institutional Transfer (p. 174) statement found elsewhere in this Catalog.

Student Rights and Responsibilities*

In healthy communities organized along democratic principles, participants recognize rights as well as responsibilities. This section of the catalog outlines certain rights and responsibilities as they apply to students, including:

- Discussion of Cincinnati State's embrace of a broad statement of Student Rights and Freedoms
- Specific legal rights that are detailed in state and federal law involving privacy and discrimination on the basis of race, gender, religion, sexual orientation and the like.
- A student's right to be free from sexual harassment, and to enjoy a drug-free environment.

The section on responsibilities deals mainly with the Student Code of Conduct, the College's policy on responsible use of information technology and peer-to-peer file sharing, and the College's policy on such matters as weapons and alcohol on campus.

The College's policy on Academic Integrity is covered in the Academic Policies and Procedures (p. 189) section of this catalog.

Student Rights

Introduction

An important part of the mission of the College is the adherence to the principles of student rights and freedoms, as amplified by the "Joint Statement on Rights and Freedoms of Students," which was originally formulated in 1967 and subsequently modified by representatives of the American Association of University Professors, United States Student Association, Association of American Colleges, National Association of Student Personnel Administrators, National Association for Women Educators, and a number of other professional bodies.

These principles speak to the standards and responsibilities of the academic community to ensure student access to education; free discussion in the classroom; maintenance of student records; the freedom to form organizations that promote the common interests of students, and the freedom of inquiry and expression; student participation in institutional government; as well as expectations of student conduct, and the exercise of rights of citizenship. Complete copies of the statement are available from the Senior Director of Student Success and Development.

Non-Discrimination Policy

Cincinnati State Technical and Community College affirms that no person shall, on the basis of race, color, religion, sex (including pregnancy, childbirth, or related medical conditions), gender, sexual orientation, gender identity or expression, national origin, age, disability (physical or mental), veterans status, marital status, ethnic origin, ancestry, social origin, social condition, political or religious ideas, political affiliation, creed, or military status, service, or military obligation, be denied the benefits of, or be subjected to discrimination under any educational program or activity conducted under its auspices. This shall extend to all employees.

Inquiries concerning the application of this policy may be referred to the Director of Human Resources, who is the designated Equal Employment Opportunity (EEO) Coordinator for the College.

Lawra Baumann
Director of Human Resources
Cincinnati State Technical and Community College
3520 Central Parkway
Cincinnati, Ohio, 45223-2690

(513) 569-1759 lawra.baumann@cincinnatistate.edu

Dissemination Procedure

This policy shall be disseminated through the following means:

- · Cincinnati State website
- College Catalog
- · College Operations Manual
- Student Code of Conduct (by reference)
- · Adjunct Handbook
- New Employee Orientation
- · College-wide postings
- · Admissions Book
- First Year Experience (FYE) course, required of all new students

Grievance Procedures (Anti-Discrimination, Title IX and Section 504)

Any student, staff member, or faculty member who believes that any of the College's students, staff, faculty, or visitors have in any way discriminated against her/him may bring forward a complaint.

The complainant may file her/his complaint directly with the U.S. Department of Education (55 Erieview Plaza, Room 300, Cleveland, Ohio, 44114-1816), and/or use the internal grievance procedure set forth as follows:

Step 1

A discrimination complaint should first be made to the College's Title VI/Title IX/Section 504 coordinator within 10 school days from the date of the incident. The Title VI/Title IX/Section 504 coordinator will make all efforts to investigate and resolve the complaint within 30 days from the receipt of the complaint. This investigation, which could include interview of witnesses, will be conducted in an impartial manner.

Title VI/Title IX/Section 504 Coordinator:

Lawra Baumann
Director of Human Resources
Cincinnati State Technical and Community College
3520 Central Parkway
Cincinnati, Ohio, 45223-2690

(513) 569-1759 lawra.baumann@cincinnatistate.edu

Step 2

If the Step 1 resolution is not satisfactory to any involved party, that resolution may be appealed in writing to the College's Vice President of Administration, who functions as the final mediator at the local level,

within five school days from the date of the Step 1 decision. The Vice President's decision is final.

Sexual Harassment

Cincinnati State affirms its commitment to ensuring an environment for all employees and students which is fair, humane, and respectful — an environment which supports and rewards employee and student performance on the basis of relevant considerations such as ability and effort. Behaviors which inappropriately assert sexuality as relevant to employee or student performance are damaging to this environment.

Title VII of the Civil Rights Act of 1969 and Title IX of the Educational Amendments of 1972 as interpreted by Federal Regulation prohibit sexual harassment.

Sexual favors may not be required explicitly or implicitly as a term or condition of an individual's employment or student status. The submission to or rejection of sexual favors may not be used as a basis for employment or educational decisions. Sexual conduct which has the purpose or effect of unnecessarily interfering with an individual's work or student performance or creating an intimidating, hostile, or offensive working or educational environment is prohibited.

Such conduct may include:

- · Verbal harassment or abuse
- · Subtle pressure for sexual activity
- Sexist remarks about a woman's or man's clothing, body, or sexual activities
- · Unnecessary touching, patting, or pinching
- · Leering or ogling of a woman's or man's body
- · Constant brushing against a woman's or man's body
- Demanding sexual favors accompanied by implied or overt threats concerning one's job, grades, letters of recommendation, etc.
- · Physical assault

Where to Get Help

If a student believes he or she is being subjected to sexual harassment, that individual should contact:

Lawra Baumann
Director of Human Resources
Cincinnati State Technical and Community College
3520 Central Parkway
Cincinnati, Ohio, 45223-2690

(513) 569-1759 lawra.baumann@cincinnatistate.edu

Release of Information

Release of Information

Federal law and Cincinnati State's own policies impose certain limitations on the information that may be released without a student's consent.

Cincinnati State, in accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA), as amended, has designated the following information regarding its students as directory (public)

information that may be released without the written consent of the student:

- Name
- Program
- · Participation in officially recognized activities and sports
- Weight and height of members of intercollegiate athletic teams
- · Dates of attendance
- Degrees and awards received (including dates of graduation and major)
- Most recent previous educational agency or institution attended
- Enrollment status (part-time or full-time), including date(s) of change(s) in status if specifically requested.

All other information is confidential and will be released to individuals or agencies outside of the College only with written consent from the student; as otherwise required by law; or to Cincinnati State's academic partners as described below.

Students have the right to withhold directory information from the public if they desire. Each student who wants all directory information withheld is required to inform the Office of the Registrar in writing. At least five days should be allowed for processing such requests.

Upon receipt of a written request to withhold directory information, the Office of the Registrar will place a hold on the student's record alerting staff in the Office of the Registrar the student has requested that no information be provided. No information will be released, regardless of any authorizations the student has completed either before or after notification has been submitted to the Office of the Registrar.

Cincinnati State has established formal academic partnerships with several four-year colleges and universities to facilitate transfer of Cincinnati State graduates to baccalaureate programs. Directory information plus addresses, telephone numbers, and e-mail addresses of Cincinnati State students, with 80+ credit hours earned and 2.00 minimum grade point average, will be provided periodically to Cincinnati State's academic partners.

Cincinnati State receives many inquiries for directory information from various sources, including prospective employers, insurance companies, loan agencies, other institutions of higher education, government agencies, and news media. All students are advised to carefully consider the consequences of a decision to withhold directory information. If a student requests to have directory information withheld, the student is required to provide written consent to the Office of the Registrar for any and all information to be released. Students requesting that directory information be withheld are not able to register through the web registration service.

Photographs and/or films of students for informational, promotional and recruitment purposes are taken throughout the school year. Students who do not wish to be included in these visuals must inform the College Marketing Department prior to such events, and should make their wishes known if they are in the vicinity of such activity.

Notification of Rights under the Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records. They include:

- 1. The right to inspect and review the student's educational records within 45 days of the date that Cincinnati State receives a request for access. Students should submit to the registrar, dean, program chair, or other appropriate official, a written request that identifies the record(s) they wish to inspect. The College official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the College official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- The right to ask the College to amend a record that a student believes is inaccurate or misleading. The student should write to the College official responsible for the record, clearly identify the part of the record he or she believes should be changed, and specify why it is inaccurate or misleading.
 - If the College decides not to amend the record as requested by the student, the College will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- 3. The right to consent to disclosure of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to schools officials with legitimate educational interests. A school official is:
 - A person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel)
 - A person or company with whom the College has contracted (such as an attorney, auditor, or collection agent)
 - A person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
- A College official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
- The right to file a complaint with the U.S. Department of Education concerning alleged failures by Cincinnati State to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605.

For more information, please visit the College website at www.cincinnatistate.edu or contact the Office of the Registrar, phone (513) 569-1522 or email registraroffice@cincinnatistate.edu.

Health Insurance Portability & Accountability Act of 1996 (HIPAA)

Students may be required to provide medical or psychological records to Cincinnati State in order to document and receive certain specialized services. These records are confidential and protected under the Health Insurance Portability and Accountability Act of 1996 (HIPAA) until they are provided to Cincinnati State. At that point they become education records and come under the protection of the Family Educational Rights and Privacy Act of 1974 (FERPA). Both of these acts have strict rules to protect personal confidential information.

Questions regarding privacy and confidentiality issues should be addressed to the Office of the Registrar, phone (513) 569-1522 or email registraroffice@cincinnatistate.edu.

Solomon Amendment

In compliance with the Solomon Amendment which became effective on April 1, 1997, Cincinnati State must supply the following information (if captured) to representatives of any branch of Federal Armed Forces for the purpose of federal recruiting:

- · Student name
- Address
- Telephone number
- Major
- · Date and place of birth
- · Level of education
- Degree(s) received
- Prior military experience
- · Most recent previous educational institution enrolled

Cincinnati State will only release this information without the student's written prior consent if it is required to do so in compliance with the Solomon Amendment, and upon the written request of an official representative of the federal Armed Forces. Please review the Release of Information section above for information pertaining to the release of directory information.

Substance Abuse Policy

Cincinnati State prohibits the unlawful manufacture, possession, use, or distribution of drugs on its property or as a part of its activities. Cincinnati State also prohibits the use or possession of alcoholic beverages on campus property except as authorized by campus policy. Students and staff may be accountable to both civil authorities and to the College administration for drug and alcohol-related actions which are a violation of federal, state, or local laws, or the College policy as stated below. In 1989, the College Board of Trustees approved the Drug-Free Workplace policy below.

Policy for Drug-Free Workplace

The unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Cincinnati State workplace. Employees who violate this prohibition are subject to disciplinary action up to and including immediate discharge.

All employees are obligated to the terms of this policy and must notify their immediate supervisor of conviction for any criminal drug statute violation occurring in the workplace no later than five days after such conviction.

Each employee of the College will receive a written copy of this policy statement regarding a Drug-Free Workplace and will be notified that, as a condition of employment, he or she must abide by this policy statement and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace not later than five days after such conviction.

Upon receiving notice that an employee who is engaged in the performance of a federal contract has had any criminal drug statute conviction for a violation occurring in the workplace, Cincinnati State

will notify the federal contracting agency within 10 days. The College will impose a sanction on, or require participation in, a drug abuse assistance/rehabilitation program by the convicted employee.

Alcohol and the Law

Individuals have a responsibility to follow the laws of the city, state, and nation. Those who fail to live up to that responsibility face certain penalties. Some of the potential legal consequences of committing an alcohol-related criminal offense are listed in this statement.

Open Container: It is illegal to possess in public an open container of an alcoholic beverage. If convicted of this offense, the maximum penalty is a \$100 fine. Consumption of alcohol in a motor vehicle is a fourth degree misdemeanor with maximum penalties of 30 days imprisonment, a \$250 fine, or both.

Providing Alcohol to an Underage Person: A person who furnishes alcohol to an underage person is guilty of a first-degree misdemeanor. The maximum penalties associated with this offense are six months imprisonment, \$1,000 fine, or both. A social host, therefore, risks being fined and imprisoned when he or she furnishes alcohol to a person he or she knows or should know is not 21 years of age.

Serving Alcohol at Campus Events: Only students who are age 21 or older may serve alcohol at the Summit Restaurant or at events on campus where alcohol is served.

Underage Consumption, Purchase or Possession of Alcohol: The legal drinking age in Ohio for consumption of an alcoholic beverage is 21 years old. Anyone purchasing, possessing, or consuming alcohol prior to their twenty-first birthday is guilty of a first-degree misdemeanor. The maximum penalties associated with this offense are six months imprisonment, a \$1,000 fine, or both. A 20-year-old student, therefore, risks being imprisoned and fined when he or she decides to drink alcohol. No student under age 21 may consume alcohol on campus.

Student Responsibilities

Student Code of Conduct Introduction and Purpose

The Student Code of Conduct is established to foster and protect the core missions of the College, to foster the scholarly and civic development of the College's students in a safe and secure learning environment, and to protect the people, properties and processes that support the College and its missions. The core mission of the College is to provide student focused, accessible quality technical and general education, academic transfer, experiential and cooperative education, and workforce development.

Information and/or complaints regarding academic misconduct such as cheating, plagiarism, fabrication, or other forms of academic dishonesty will be referred to the Dean of the academic division in which the course is taught. The Academic Integrity Policy and Violations Procedure is provided in the Academic Polices and Procedures (p. 189) section of this catalog.

Jurisdiction

The code applies to the on-campus conduct of all students and registered student organizations. The code also applies to the off-

campus conduct of students and registered student organizations in direct connection with:

- Academic course requirements or any credit or non-credit bearing experiences, such as internships, co-ops, field trips, study abroad, or student teaching;
- Any activity supporting pursuit of a degree, such as research at another institution or a professional practice assignment;
- Any activity sponsored, conducted, or authorized by the College or by registered student organizations;
- 4. Any activity that causes substantial destruction of property belonging to the College or members of the College community or causes serious harm to the health or safety of members of the College community

The College reserves the right to administer the code and proceed with the hearing process even if the student withdraws from the College, is no longer enrolled in classes, or subsequently fails to meet the definition of a student while a disciplinary matter is pending.

Students continue to be subject to city, state, and federal laws while at the College, and violations of those laws may also constitute violations of the code. In such instances, the College may proceed with College disciplinary action under the code independently of any criminal proceeding involving the same conduct and may impose sanctions for violation of the code even if such criminal proceeding is not yet resolved or is resolved in the student's favor.

Definitions

- 1. The term "COLLEGE" means Cincinnati State Technical and Community College.
- 2. The term "STUDENT" includes all persons taking courses (credit or non-credit) at the College both full-time and part-time, pursuing undergraduate or professional studies and those who attend other post-secondary educational institutions at a Cincinnati State location. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the College are considered "students."
- 3. The term "FACULTY MEMBER" means any person hired by the College to conduct classroom activities.
- The term "COLLEGE OFFICIAL" includes any person employed by the College performing assigned administrative or professional responsibilities.
- 5. The term "MEMBER OF THE COLLEGE COMMUNITY" includes any person who is a student, faculty member, College official or any other person employed by the College. A person's status in a particular situation shall be determined by the Senior Director of Student Success and Development.
- The term "COLLEGE PREMISES" includes all land, buildings, facilities, and other property in the possession of or owned, used, leased, or controlled by the College including adjacent streets and sidewalks
- The term "ORGANIZATION" means any number of persons who have complied with the formal requirements for College recognition or registration.
- 8. The term "JUDICIAL BODY" means any person or persons authorized by the Senior Director of Student Success and Development to determine whether a student has violated the student code and to recommend imposition of sanctions.

- 9. The term "JUDICIAL ADVISOR" means the Senior Director of Student Success and Development or a College official authorized on a case-by-case basis by the Senior Director of Student Success and Development to impose sanctions upon students found to have violated the student code of conduct. The Senior Director of Student Success and Development may authorize a judicial advisor to serve simultaneously as a judicial advisor and the sole member or one of the members of a judicial body. Nothing shall prevent the Senior Director of Student Success and Development from authorizing the same judicial advisor to impose sanctions in all cases.
- 10. The term "APPELLATE PANEL" means any person or persons authorized by the Senior Director of Student Success and Development to consider an appeal from a judicial body's determination that a student has violated the student code of conduct or from the sanctions imposed by the judicial advisor.
- 11. The term "SHALL" is used in the imperative sense.
- 12. The term "MAY" is used in the permissive sense.
- 13. The Senior Director of Student Success and Development is that person designated by the College President to be responsible for the administration of the Student Code of Conduct.
- 14. The term "POLICY" is defined as the written regulations of the College as found in, but not limited to, the College catalog.
- 15. The term "CHEATING" includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) the acquisition, without permission, of tests or other academic material belonging to a member of the College faculty or staff.
- 16. The term "PLAGIARISM" includes, but is not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgement. It also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.
- 17. The term "PRIVILEGES" includes, but is not limited to:
 - a. use of College facilities (game room, fitness center, etc.),
 - b. ability to be on campus outside of class times.

Prohibited Conduct

Though the following is not an inclusive list, any student found to have engaged, or attempted to engage, in any of the following conduct while within the College's jurisdiction, will be subject to disciplinary action by the College.

- Disruption of, or interference with, any College activity, including teaching, administration, or other public service functions on or off campus, or other authorized non-College activities, when the act occurs on College premises;
- 2. Harassment. Violations of this policy include, but are not limited to:
 - Any act, display or communication that reflects sexual misconduct, sexual and intimate partner violence, and/or stalking.
 - Any act, display, or communication that would cause a reasonable person to fear for his or her personal safety. This includes, but is not limited to, physical coercion or restraint.

- c. Any act, display, or communication that causes substantial injury or distress on the part of the person or persons to whom it is specifically directed that results in the individual being deprived of educational activities or opportunities. This includes, but is not limited to, unwanted sexual advances or request for sexual favors.
- d. Any attempt to repeatedly make contact, either in person or electronically, with a person over his/her stated objections, when such contact serves no legitimate purpose. This includes, but is not limited to, intentionally following another person in or about a public place or places.
- 3. Sexual harassment of any person. (See Sexual Harassment Policy elsewhere in this Catalog).
- Public intoxication or the use, possession, sale, attempted sale, barter, exchange, gift or distribution of alcoholic beverages except as expressly permitted by law and College regulations;
- Attempted or actual theft of and/or damage to property of the College or property of a member of the College community or other personal or public property on campus;
- Gambling, including unlawful games of chance for money or anything of value and the sale, barter, or other disposition of a ticket, order, or any interest in a scheme of chance by any name;
- Solicitation, distribution, selling or promotion of materials on Cincinnati State owned or controlled property. Exceptions may be made for recognized student organizations after registering with the appropriate College official or permission from the event scheduling office;
- Failure to comply with the directions of College officials or law enforcement officers acting in the performance of their duties, and/ or failure to identify oneself to these persons when requested to do so:
- 9. Participation in a campus demonstration or unauthorized assembly that disrupts the normal operations of the College and infringes on the rights of other members of the College community; leading or inciting others to disrupt scheduled activities in any campus building or area; or intentional obstruction that unreasonably interferes with freedom of movement, either pedestrian or vehicular:
- Permitting another person to use his or her College identification card, impersonating another person, or misrepresenting authorization to act on behalf of another person;
- 11. Knowingly instituting a false charge against another person;
- 12. Unauthorized use, alteration or in any way tampering with fire equipment, safety devices or safety equipment;
- 13. Leaving children unattended while on campus;
- Failure to comply with the official and proper order of a duly designated college official;
- 15. Using electronic or other means to make a video or photographic record of any person in a location where there is a reasonable expectation of privacy without the person's prior knowledge, when such a recording is likely to cause injury, distress, or damage to reputation. This includes, but is not limited to, taking video or photographic images in shower/locker rooms or restrooms. The storing, sharing, and/or distributing of such unauthorized records by any means is also prohibited;
- Physical abuse (e.g., fighting), verbal abuse, threats, intimidation, stalking, coercion, and/or conduct that threatens or endangers the health and safety of any person;

- Use, possession, sale, attempted sale, barter, exchange, gift, or distribution of narcotic or other controlled substances, or drug paraphernalia, except as expressly permitted by law;
- 18. Misuse or misappropriation of College funds;
- 19. Acts of dishonesty, including, but not limited to, the following:
 - Furnishing false information to a College official or faculty member.
 - Forgery, alteration, or misuse of any College document, record, or instrument of identification,
 - Tampering with the election of any College recognized student organization.
- 20. Hazing of any individual or organization as defined by the laws of the State of Ohio. Hazing is defined as an act that endangers the mental or physical health or safety of a student, or that destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition of continued membership in a group or organization, for which the acts do not result in bodily injury to any person;
- 21. Theft or abuse of computer time, including, but not limited to:
 - unauthorized entrance into a file to intentionally damage, disable or impair computing or telecommunications equipment or software,
 - Acquisition or use of software that does not adhere to applicable software licenses and copyright laws or is not consistent with College computer use policies,
 - Introduction of viruses or other destructive software in College computer facilities,
 - d. Unauthorized transfer of a file.
 - Unauthorized use of another individual's identification and password.
 - f. Use of computing facilities to interfere with the work of another student, faculty member, or College official,
 - g. Use of computing facilities to interfere with the normal operation of the College computing systems.
 - h. Any violation of the Cincinnati State acceptable use of Information Technology Policy found elsewhere in this Catalog.
 - Use of computer facilities to send or view obscene or threatening messages and/or images.
 - j. Unauthorized access to secured computer labs.
- 22. Unauthorized or fraudulent use of the College name, seal, emblem, nickname, mascot, or motto;
- Unauthorized entry and/or occupancy of College facilities, including unauthorized possession, duplication, or use of keys to any College facility;
- 24. Conduct which is disorderly, lewd, or indecent; breach of peace; or aiding, abetting, or procuring another person to breach the peace on College premises or at functions sponsored by, or participated in by, the College.
- Trespass on College grounds unauthorized entry into restricted areas, or entry into College buildings when College is closed to the public.
- 26. Use, possession, or carrying of firearms (including, but not limited to, pistols, rifles, shotguns, or ammunition), incendiary devices, smoke devices, knives, explosives, or other dangerous weapons while on College owned or controlled property, or at College sponsored or supervised activities, except by College and other police officers and other persons specifically authorized by the College;

- 27. Any action that causes or attempts to cause a fire or explosion, including bomb threats, or any intentionally false reporting of a fire, or any tampering with the safety devices or the failure to leave College buildings during a fire alarm;
- The denial of services or access to activities to an individual because of his or her race, religion, age, national origin, gender, marital status, sexual orientation, or disability;
- 29. Battery or physical abuse of any person resulting in bodily injury;
- Violation of a federal or state felony offense law or any off-campus illegal activity that could pose an imminent threat to the safety of any member of the College community;
- 31. Violation of any college policy (including the Non-Smoking policy (p. 170) described elsewhere in this Catalog), prohibited conduct, federal or state misdemeanor offense, or equivalent offense under city or county law, involving no bodily injury or threat of bodily injury to any person.

Social Media

Cincinnati State does not prohibit students from joining and participating in online communities as individuals. However, any online behavior (e.g., cyber bullying, verbal threatening behavior, etc.) that violates the College's Student Code of Conduct which is brought to the attention of a College official will be treated as any other violation of the Student Code of Conduct.

Potential Sanctions for Violations of Prohibited Behaviors

- Restitution: Compensation for loss, damage, or injury to College property.
- Educational Sanctions: An Educational Sanction requiring attendance or participation in a pre-arranged class, program, or activity designed to prevent behaviors via education. These could include work assignments, essays, community service, and other educational assignments.
- Formal Warning: Formal Warnings emphasize to the student that further violations will result in progressive sanctioning.
- 4. Conduct Probation: Conduct Probation serves as a warning to students that they are not in good standing with the College, and that further violations of the Code of Conduct could result in additional sanctions, up to and including Suspension or Dismissal.
- Facility Suspension: The student no longer has the privilege of entering or using a particular facility or building for a specified period of time or until a specific condition is met.
- Facility Expulsion: Facility Expulsion entails the permanent loss of privileges to use a building or facility for an unlimited period of time.
- 7. Loss of Privileges: Loss of Privileges entails denial of specified privileges for a designated period of time.
- Suspension: Suspension entails the termination of a student's enrollment for a particular period of time or until specific conditions are met. Suspended students may not be present on College property or at College-sponsored events.
- Dismissal: Dismissal entails the termination of a student's enrollment with the College. Dismissed students are prohibited from being present on College property or at College-sponsored events.

Judicial Procedures Initiation and Investigation of Code Violations

Initiation. Person(s) witnessing or experiencing what they believe to be a possible non-academic code violation should provide the information to the Senior Director of Student Success and Development. In cases where the alleged activity may involve a violation of criminal law in addition to a violation of code, information and/or complaints should be provided to the Cincinnati State Police. The College will review all information and/or complaints received and may conduct a preliminary investigation of the alleged violation.

Investigation. The Cincinnati State Police shall have primary responsibility for the investigation of acts that involve suspected violation of federal, state, or local laws and applicable College policies. The Senior Director of Student Success and Development or his/her designee is authorized to investigate allegations involving violations of the Student Code of Conduct other than those involving academic misconduct. The Dean of the academic division is authorized to investigate allegations involving academic misconduct in that academic division. During the investigation of an alleged non-academic violation of the Student Code of Conduct, the student allegedly involved in misconduct will be sent a letter describing the alleged violation, requesting the student to make an appointment to discuss the matter, and specifying a date by which the appointment must be made. Upon receipt of a Student Code of Conduct report by the Senior Director of Student Success and Development, a registration hold will also be placed in the student's record in the student information database. Any person believed to have information relevant to an investigation may also be contacted and requested to make an appointment to discuss the matter. Upon completion of an investigation, the Senior Director of Student Success and Development will decide upon an appropriate course of action, which may include taking no further action, deferring further action with or without conditions, or initiating charges with the appropriate College judicial body.

Emergency Removal for Threatening or Disruptive Behavior.

There will be occasions when, in the opinion of the instructor or other students, inappropriate classroom behavior by a student involves an imminent threat to safety or threatens to disrupt the classroom education process. In these circumstances the instructor should immediately contact Cincinnati State Police and have the student removed from the class. The Cincinnati State Police will provide an incident report for the Senior Director of Student Success and Development for Student Code of Conduct review. The instructor or staff member is also required to complete a Student Incident Report/ Referral form outlining their perspective of the incident.

Threatening or disruptive behavior can be described in many ways. The definition will be left to the discretion of the classroom instructor or students at the time of the incident. In cases of uncertainty it is recommended to err on the side of safety. The incident will be immediately managed and the rights and safety of all will be protected.

If emergency removal of a student is prompted by a physical altercation or an arrest because of an on-campus incident, the student shall be immediately referred to the Senior Director of Student Success and Development and shall not return to class without permission from the Senior Director.

Interim suspension. When the Senior Director of Student Success and Development or his/her designee has reasonable cause to believe that the student's presence on College premises or at a Collegerelated or registered student organization activity poses a significant risk of substantial harm to the health or safety of others or to property, the student may be immediately suspended from all or any portion of College premises, College-related activities or registered student organization activities. This interim suspension will be confirmed by a written statement and shall remain in effect until the conclusion of a full hearing or administrative decision, without undue delay, in accordance with the rules of the College. The student may, within three (3) working days of the imposition of the suspension, petition the Senior Director of Student Success and Development for reinstatement. The petition must be in writing, and must include supporting documentation or evidence that the student does not pose, or no longer poses, a significant risk of substantial harm to the health or safety of others or to property. A hearing on such petition will be conducted without undue delay by the Senior Director of Student Success and Development or his/her designee.

Filing of Complaint and Initiation of Charges

Every formal complaint of a non-academic violation of the Student Code of Conduct shall be handled in accordance with the procedures described herein:

- Any student, faculty member, staff member, or College administrator may file a formal complaint against a student alleging a violation of the Student Code of Conduct.
- 2. To be treated as a formal complaint, the complaint must be reported using the incident form which can be found at following web address: https://publicdocs.maxient.com/incidentreport.php? CincinnatiState. Any verbal complaint not placed in written form may be handled and disposed of by the Senior Director of Student Success and Development or designee in any informal manner that they deem to be appropriate. A written complaint alleging a violation of the Student Code of Conduct should be filed with the College as soon as possible following the discovery of the alleged violation. The written complaint must be filed within thirty (30) calendar days from the date upon which a College official becomes aware of the alleged violation and identifies the student(s) who allegedly committed the violation. Absent extraordinary circumstances, the College must initiate charges, if any, within one year of the filing of the complaint.
- 3. All formal non-academic complaints will be referred to the Senior Director of Student Success and Development for investigation, mediation, and/or possible resolution. After interviewing the accused student and all appropriate witnesses in the matter, and reviewing documentary and other evidence related to the matter, the Senior Director or designee may take the following actions:
 - Determine that no or insufficient grounds exist to believe that a violation occurred and dismiss the complaint.
 - Determine there are grounds to believe that a violation occurred, then discuss a resolution with the accused student, which may include the imposition of any sanctions.
 - Determine that sufficient grounds exist to believe that a
 violation occurred and forward the issue to the Student
 Conduct Hearing Panel to conduct a formal hearing of the
 complaint. In the event of such a determination, the Senior
 Director shall prepare a report, including a summary of
 the complaint and the issues involved, and list of potential

witnesses and other persons believed to have information about the complaint.

- 4. If the Senior Director of Student Success and Development was involved either in the incident that gave rise to the allegation of a Code violation, or previously counseled the accused student or the complainant about the matter, the Provost may appoint a designee to hear the case.
- If the matter is not resolved by the Senior Director or designee in accordance with item 2, then the Student Conduct Hearing Panel will be convened within thirty (30) calendar days, following notification to the accused student.

Notice of charges. Students shall be notified of College charges in writing, unless a more effective form of notification is deemed appropriate. Charges may be presented in person, by email to the accused student's official College email address, or by mail to the accused student's local or permanent address on file with the Registrar's Office. All students are required to maintain an accurate and current local and permanent address with the College Registrar. Following notification of charges, students are strongly encouraged to and shall be afforded the opportunity to meet with a College official for the purpose of explaining the College judicial process and discussion of the charges. Failure of the accused student to respond to the initiation of charges or schedule a preliminary meeting shall in no way prevent the College from scheduling and conducting a hearing in the absence of the accused student.

Standard of Evidence. The standard of evidence used to determine responsibility is a "preponderance" ("more likely than not") of evidence. This determination is based on the greater weight of evidence and does not require a standard beyond a reasonable doubt.

The Hearing

Due Process. In all situations students and student organizations will be assured of fair and equitable treatment through consistent adherence to the due process procedure as described herein:

- 1. Be notified of any complaint filed against the student.
- 2. Be heard in an unbiased, non-threatening environment.
- 3. Know the identity of the complaining party (unless it will cause a clear and present danger to the complainant).
- 4. Be notified of any sanctions or actions in writing.
- 5. Be notified of the appeals process.

Administrative Decision. In all cases, a student charged with one or more violations of the student code has the right to a hearing. Depending on the nature of the offense, the hearing will be with the Senior Director of Student Success and Development or the Hearing Panel. However, in a case where a charged student admits such violations verbally or in writing, the student may request in writing to have a decision as to appropriate action made administratively by the Senior Director or designee. Following an administrative decision, the student retains the right to request an appeal of the original decision, but may do so only upon the grounds that the sanction is grossly disproportionate to the offense committed.

Hearing Panel. If the Senior Director of Student Success and Development chooses to refer the case to a Hearing Panel, the Panel will consist of:

 The Senior Director of Student Success and Development or designee Two (2) faculty members and two (2) staff members appointed by the Senior Director.

The Senior Director of Student Success and Development or designee will serve as the panel chairperson. The chairperson will not vote on a decision unless there is a tie.

Note: No hearing shall take place without a minimum of two (2) faculty/staff members and the non-voting chairperson.

Notice of hearing. If a hearing is to be held, the Senior Director will schedule a date and time for the Hearing Panel to convene to hear the complaint, taking into consideration the class schedule of the accused student and the availability of potential witnesses and Hearing Panel members. If at all possible, the Hearing should take place within thirty (30) calendar days following the referral of the matter to the Senior Director. Written notification of the Hearing may be hand delivered; sent by email to the accused student's official College email address; or mailed to the last known address of the student, either by certified mail or first class mail, no fewer than ten (10) calendar days prior to the hearing. Unless already provided to the student, the notification will include the charge(s), date, time, and location of the hearing, the designated Senior Director or designee or panel, a tentative list of potential witnesses, a statement of the student's rights, and information on the hearing procedures. The accused student may request a postponement for reasonable cause, or a hearing separate from other accused persons. A request for a postponement for reasonable cause must be made in writing, include supporting rationale and be received by the person sending the hearing notification at least two (2) business days before the scheduled hearing. The student may also have an attorney or any other person of the student's choosing or present at the Hearing, but this person shall be an observer only and shall not participate in the Hearing.

Hearing procedures. Although the procedural requirements are not as formal as those existing in criminal or civil courts of law, to ensure fairness, the following procedures will apply and, unless already provided to the student, be included within the hearing notice:

- Attendance at hearings is limited to those directly involved or those requested by the Senior Director or designee or panel to attend. The Senior Director or designee or panel will take reasonable measures to assure an orderly hearing, including removal of persons who impede or disrupt proceedings.
- The accused student may have an advisor throughout the hearing. The advisor may only counsel the student and may not actively participate in the hearing, unless clarification is needed as determined by the Senior Director or designee or panel.
- 3. The accused may submit a written statement, may invite relevant factual witnesses to attend and answer questions, may invite character witnesses to submit written statements, may, as approved in advance by the Senior Director or designee, invite character witnesses to testify in person, may ask questions of witnesses called by others, and shall be notified of potential witnesses to be called. The accused must also submit a list of potential witnesses, and identify those who are character witnesses only, to the Senior Director or designee at least two (2) business days prior to the hearing. The College may present witnesses as well as question those presented by the accused.
- 4. Written statements may be used only if a fact witness (i.e., not a character witness) cannot attend the hearing and the hearing cannot be postponed to accommodate the fact witness's schedule.

- 5. In cases requiring special expertise, the panel coordinator may appoint individuals with appropriate expertise to serve as consultants to the panel. The consultants may be present and provide information as called upon during the hearing but will not vote.
- Students are entitled to a presumption of innocence. Therefore, a student will not be found in violation unless a preponderance of the evidence supports the charge(s).
- 7. At the conclusion of hearing and review of all the information, including testimony, the accused student will be given the opportunity to make a closing statement. After the closing statement, the Hearing Panel will decide, by majority vote, outside the presence of the accused student and any other non-Hearing Panel members, whether the student violated the College Student Code of Conduct. At that time the Senior Director will provide information to the panel about any prior misconduct by the student. Based upon the panel deliberations and any additional information presented, the panel will decide on what appropriate sanctions will be imposed.
- 8. Sanctions should be commensurate with the violation(s) found to have occurred. In determining the sanction(s) to be imposed, the Senior Director or designee or panel should take into account any mitigating circumstances and any aggravating factors including, but not limited to, any provocation by the subject of the conduct that constituted the violation, any past misconduct by the student, any failure of the student to comply fully with previous sanctions, the actual and potential harm caused by the violation, the degree of intent and motivation of the student in committing the violation, and the severity and pervasiveness of the conduct that constituted the violation. Conduct, other than constitutionally protected expression, motivated by bias based on age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status may be considered an aggravating factor for sanctioning. Impairment resulting from voluntary use of alcohol or drugs (i.e., other than medically necessary) will also be considered an aggravating, and not a mitigating, factor. The Hearing Panel may recommend any of the sanctions set forth in this Student Code of Conduct as listed in Potential Sanctions.
- 9. A recommendation for suspension or dismissal of the student must be referred to the Senior Director of Student Success and Development for approval and final disposition. The decision of the Hearing Panel shall be placed in writing, and the Senior Director or designee will provide documentation that due process has been followed. The Senior Director of Student Success and Development will notify the student formally by registered mail of the decision. In the same notification, the student shall be informed of the procedure by which to appeal the decision.

Record of proceedings. A single record consisting of written notes, tape recording, or other method selected by the hearing panel or officer, will be made of all hearings. Such record will remain the property of the College but will be made available to the accused for review during the appeal period. A written notice of the decision and, if found in violation, information regarding appeal procedures will be provided to the accused student.

Failure to Appear. If a student fails to appear for a scheduled conduct hearing with the Senior Director of Student Success and Development or an appearance before the Student Conduct Hearing Panel, the case may be adjudicated and a sanction imposed. The Senior Director of Student Success and Development or Student Conduct Hearing Panel will consider the facts presented when making their decision.

The student's absence will not be a factor in the determination. The Senior Director of Student Success and Development will then notify the student of the decision in writing. If the student is found in violation of the Student Code of Conduct and a sanction is applied, the sanction must be completed by the student in the allotted time or a hold will be placed on the student's record in the student database.

Failure to Complete a Mandatory Sanction. Failure to complete a required sanction is a serious offense at Cincinnati State. It is considered an additional violation of the Student Code of Conduct, and will usually result in more serious sanctions being imposed. Within two weeks of a student's failure to complete a sanction, a hold will be placed on the student's record in the student database, and any pre-registration activity may be deleted. Thus, it is very important for students to complete sanctions on time and avoid a hold being placed on their academic records or registration. Students refusing to complete sanctions also place themselves at risk of being disciplinarily suspended or dismissed from the College.

Appeal Process

Right to Appeal. A student found to have violated this code has the right to appeal the original decision. An appeal of a decision must be submitted in writing and postmarked or hand delivered to the Senior Director of Student Success and Development, or sent via email, as provided below, within ten (10) calendar days after the date on which written notice of the decision is sent to the student. Each student shall be limited to one appeal. The decision of the appeal panel is final.

Grounds for appeal. An appeal may be based only upon one or more the following grounds:

- · Procedural error;
- Misapplication or misinterpretation of the rule alleged to have been violated:
- Findings of facts not supported by a preponderance of evidence;
- Discovery of substantial new facts that were unavailable at the time of the hearing; and
- That the disciplinary sanction imposed is grossly disproportionate to the violation committed.

Appellate panel will consist of:

- Five (5) members of faculty and staff appointed by the Senior Director of Student Success and Development.
- One member of the Appellate Panel will be designated by the Senior Director of Student Success and Development to serve as the panel chairperson. The chairperson will not vote on a decision unless there is a tie. An alternate co-chair will be selected from the panel members.

Appeal proceedings

- The appellate panel shall dismiss the appeal if the appeal is not based upon one or more of the grounds set forth in the Grounds for Appeal section above.
- The appellate panel may decide the appeal based upon a review of the record.
- The appellate panel may request additional written information or an oral presentation from any relevant person(s) and then decide the appeal based upon the enhanced record.

Possible dispositions by the appellate panel – The appellate panel may, after a review of the record, uphold the original sanction, dismiss the original sanction, or impose a lesser sanction. This will be communicated in writing to the student within 10 business days of the panel hearing.

Minor deviations from procedure

A student and Senior Director or designee may agree in advance to minor deviations from procedure. Such deviations are not then subject to appeal. Other minor deviations are acceptable as long as such deviations are not found upon appeal to be unreasonably harmful to the student.

Confidentiality. Disciplinary matters are kept confidential to the extent required by law.

Retention of Records

All non-academic student disciplinary records are maintained in the office of the Senior Director of Student Success and Development for a period of five (5) years. Expulsion records are kept forever; all other files are purged after five years.

All statements in this publication are announcement of present policy only and are subject to change at any time without prior notice

Information Technology and Resources

Acceptable Use of Technology Overview

Acceptable Use policies define what users may or may not do in the process of utilizing Cincinnati State information technology (IT) resources.

Scope

This policy addresses the use of Cincinnati State communications services and the communication of information among Cincinnati State employees (full-time and part-time), students, contractors, and vendors.

Cincinnati State reserves the right to modify this policy from time to time at its discretion.

Policy Statement

Cincinnati State provides communications services for the convenience and efficiency of students, employees, and College-approved business partners for use in the course and scope of conducting business for or with the College. All messages and documents sent or received through these communications services and/or stored on Cincinnati State owned or controlled computers, servers, or other devices are subject to Cincinnati State integrity standards.

Definitions

Students are individuals taking courses, credit or non-credit, degree-seeking or non-degree-seeking, at the College, and those who attend other educational institutions at a Cincinnati State location or who participate in an online relationship with Cincinnati State (in a high

school College Credit Plus program, for example). Individuals who are not specifically enrolled for a specific term but who have a continuing relationship with the College are considered students.

Employees are individuals classified as full-time, part-time (including adjunct faculty), or temporary employees of Cincinnati State, including student workers.

College refers to Cincinnati State Technical and Community College and its subsidiaries, divisions, and affiliates.

Business Partners are individuals or firms considered customers and suppliers of the College, including contractors and consultants.

Communications Services, for the purposes of this policy, are messages and documents sent or received via letter, memo, telephone, voice-mail, fax, audio/video tape, computer media, file/print servers, electronic mail, online computer services (internet, Google, etc.), instant messaging, wireless message devices, or any other means provided by the College or conducted over College resources.

Controls

Content

Communications Services are provided for the convenience and efficiency of users in the course and scope of performing their duties for the College. Although they sometimes may be intended to be confidential, all communications may become subject to discovery in a civil or criminal proceeding, or to disclosure in response to a valid request for documents under the Ohio Public Records Act. The contents of electronic communications (e-mail, fax, computer files, etc.) and voice mail messages may have the same status as paper records.

The following types of messages are strictly prohibited:

- Messages with content that violates state, federal, or other public law, such as pornography, wire fraud, or copyright violation.
- Messages that intentionally spread computer viruses or other harmful content.
- Messages with threatening, harassing, abusive, vulgar, lewd, racially offensive, defamatory, or indecent content.
- Messages involving commercial transactions, chain letters, or solicitations and distributions that are not related to Cincinnati State

College-wide Message Distribution

In the event an employee (other than system administrators) wishes to use Cincinnati State communications services for distribution of a Cincinnati State-wide message, said message must be approved in advance by the Human Resources Department and/or the Marketing Department, of the highest level that represents the audience to which the information will be sent.

Personal Use of Communications Services

Occasional personal use of Cincinnati State communications services is allowed to Cincinnati State students and employees. The following rules apply to such usage:

 Students should use their Cincinnati State e-mail accounts primarily for communications related to their educational endeavors. Personal use of Cincinnati State communications services may in no way conflict with other policies, procedures, or guidelines.

Internet Usage

Cincinnati State provides access to public information networks for the convenience and efficiency of students and employees in the scope of educational processes at Cincinnati State. It is the responsibility of each user to closely adhere to the following with respect to his or her use of all public information networks (e.g., the internet).

- A user shall utilize the public information networks primarily for purposes relating to Cincinnati State, and shall refrain from recreational or idle activity. Incidental and occasional personal use is permissible, but such use is subject to all of the College's policies.
- A user shall not purposely visit any internet website that contains threatening, harassing, abusive, embarrassing, vulgar, lewd, racist, or indecent content or implication.
- A user is prohibited from downloading any software which is not approved by their instructor, supervisor, or respective Information Services group.
- A user shall strictly observe all license restrictions for software that may be used on the internet.
- A user may not violate any law or government regulation.
- A user may not send any message that is in any way threatening, harassing, abusive, embarrassing, derogatory, or vulgar in content or implication.

Monitoring & Disclosure

It is critical that Cincinnati State be able, for its legitimate business purposes, to access and monitor all Cincinnati State communications services. Legitimate business purpose include (without limitation) such activities as: (a) legal or contractual obligations to produce any communication or audit any communication process; (b) retrieval of data from back-up or archive for system functioning; (c) network and system security; (d) safeguarding of Cincinnati State confidential information; (e) prevention of sexual harassment and workplace intimidation; (f) the investigation of complaints involving improper behavior and the enforcement of Cincinnati State policies; and (g) management and control of costs and capacity of Cincinnati State IT systems.

Generally, it is not practical for Cincinnati State to have separate access control and monitoring systems for business and personal use. Accordingly, all users of Cincinnati State communications services must expect that the following can be accessed or monitored for legitimate business purposes.

- Messages sent or received via Cincinnati State-provided internal or external electronic communications services, including e-mail and voice mail
- Data or software stored on Cincinnati State-owned computers, servers, storage media or other devices
- Usage of the internet or Cincinnati State intranets

No facilities are provided or maintained for private or confidential email, voice mail, or computer files. Cincinnati State may:

 Authorize security personnel system administrators and/or supervisors to review and/or monitor electronic or voice mail messages and/or data or software contained on Cincinnati State

- computers, servers, storage media, or other devices on a periodic, random, and/or ongoing basis to ensure compliance with this policy, for other purposes authorized by law or as part of an investigation
- Grant access for other staff, for necessary business purposes, to access data or software stored on Cincinnati State equipment

Violations

Any student or employee found to have violated Cincinnati State policy related to access or use of Cincinnati State communications services will be subject to disciplinary action up to and including termination (employees) or expulsion (students).

In addition, subject to local, state or federal laws, employees could face criminal charges resulting in a fine or imprisonment.

Student Recording and Distribution of Course Lectures and Materials

Students may not photograph, record (using audio or video technology), duplicate, reproduce, transmit, distribute, or upload or share via internet or website environments any class lectures, discussion, and/or other course materials, unless written permission has been obtained in advance from the instructor.

In the case of class discussions and/or presentations, permission must also be obtained from all students in the class and any guest speakers, if applicable. All participants must be informed in advance that activities will be recorded.

Students should review the course syllabus for instructions regarding the instructor's policy on class recordings. Unless directly authorized by the syllabus, any student wishing to record classroom activities must discuss this issue with the instructor and obtain written permission.

Any photograph or recording of class activities and/or materials is authorized solely for use as an educational resource by an individual student or, when permission is granted, with other students enrolled in the same class. Photographs and/or recordings may not be publicly exchanged, distributed, shared, or broadcast for any purpose.

Permission to allow a photograph or recording is not a transfer of any copyrights.

Violation of this policy may subject a student to disciplinary action under the College's Student Code of Conduct (p. 210).

Exception: it is not a violation of this policy for a student determined by the Office of Disability Services to be entitled to educational accommodations to exercise any rights protected under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, including needed recording or adaptations of classroom lectures, discussions, and/or course materials for personal research and study. However, all other restrictions on other use and/or distribution apply in such cases.

Student Services*

Cincinnati State provides an array of services and support for students.

Many of these services involve the academic life of the College. These services include academic advising, career counseling, and tutoring, as well as programs specifically designed to support the needs of veterans, international students, and other distinctive student groups

Student services also include offerings provided by the Student Activities Office. The staff members of the Student Activities Office assist student clubs and organizations and facilitate a wide range of student-focused events.

Academic Support Services

Academic Advising

Academic advising assists students in reaching their academic and career goals at Cincinnati State. Program chairs, academic advisors, other faculty members, and some staff members are assigned to guide students through activities such as:

- · Setting academic goals
- · Developing educational plans
- · Selecting courses
- · Providing information on transfer credits
- · Understanding and meeting requirements for graduation
- · Clarifying career and personal goals
- · Explaining academic policies and procedures
- · Addressing academic challenges
- Making appropriate referrals to campus support services

Counseling Services

Cincinnati State Counseling Services promote student learning and development by providing counseling and referral services that address the developmental, career, and mental health needs of Cincinnati State students.

Counseling Services offered include:

Assessment: Help in identifying a student's needs, appropriate services, and a possible referral to community resources.

Career Counseling: Help students clarify interests and values, assess skills, and learn about the world of work and continuing education opportunities.

Consultation: Counselors are available for consultation with students, faculty, and administrators. Not every concern a student presents is necessarily served best by the College's Counseling Services. If it is determined that a student may be better served through other resources, the Counselor will refer the student to a related service on campus or to a community resource or agency.

Mental Health/Personal Counseling: Enrolled students may take advantage of one-on-one, short-term counseling that is voluntary and focuses on personal concerns that impair a student's ability to function in a classroom setting. Mental health counseling and crisis intervention are among the services provided.

For more information, contact the Counseling Services office in Main Building Room 171 (Clifton Campus), or call (513) 569-5779.

Disability Services

The College's Office of Disability Services works with students to ensure they receive academic accommodations in their courses. The primary goal is to guarantee that all students with disabilities have an equal opportunity in the pursuit of their educational objectives. Services and programs are available for students according to individual need.

Students with disabilities who need accommodations must first register with the Office of Disability Services and present appropriate documentation. Additionally, students must present their class schedules to the Disability Services Office at the start of an academic semester to determine appropriate accommodations. Services available include test proctoring, note-taking, scribing, interpreting, assistive technology, advocacy, and providing audio text and Braille access, as well as referrals to other campus support services and to community resources.

For more information, contact the Disability Services Office in Main Building Room 129 (Clifton Campus), or call (513) 569-1775.

High School Equivalency Testing

Cincinnati State operates a High School Equivalency (HSE) Testing Center through the College's Educational Opportunity Center, as part of our mission to provide access to educational opportunities and to prepare individuals for success. Current testing options include GED and TASC. Additionally, the College maintains an extensive network of contacts with social service agencies and career centers throughout Greater Cincinnati.

For more information, call (513) 569-1830.

Honors Program

The Honors Program is for highly-motivated, highly-qualified students enrolled at Cincinnati State. Students in the Honors Program participate in challenging coursework, close student-instructor interactions, and interdisciplinary and intercultural explorations.

The goal of the program is to enable qualified students to transfer to a four-year college or university or enter a professional field at a high level of ability by developing the leadership, creativity, and cognitive skills that foster lifelong career success. Admission to the Honors Program allows students to enroll in specially designed Honors courses and to participate in cultural, social, scientific, and community events.

The Honors Program at Cincinnati State is open to all full-time and part-time degree-seeking students who meet Honors Program entrance criteria. For more information see the Honors Program (p. 157) description elsewhere this catalog.

International Students Office

The International Student Office is responsible for developing programs to support and serve the international student community. Other services include:

Advising on admission processes and immigration regulation assistance

- · Helping international students adapt to the campus environment
- Referring international students to internal and external resources

For more information, contact the International Students Office in Main Building Room 196 (Clifton Campus), or call (513) 569-4769.

Library

The Johnnie Mae Berry Library, named for the College's first librarian, provides library services to the College community. The library is open from 7:30 a.m. to 10 p.m. Monday through Thursday, 7:30 a.m. to 4:30 p.m. on Friday, and 10:00 a.m. – 2:00 p.m. on Saturday. (The Library is closed on holidays and other days the College is closed. Hours are adjusted in Summer semester and during College breaks.)

Trained Library staff members assist library patrons in locating information and using the College's reference, circulation, and periodical collections. Help is also available by contacting the library via phone, chat, or email.

Along with standard print items, the library has a wide array of electronic resources available on- or off-campus via internet access. The library's online homepage is located at www.cincinnatistate.edu/library. The library website provides access to:

- . BLINK, the library's online catalog
- Full-text articles via numerous databases and the Electronic Journal Center
- Subject and course-specific Library Guides to assist with research 24/7
- Video tutorials to help students find books and articles and avoid plagiarism

On-campus patrons have access to 19 computers and 30 laptops located on the main level of the library.

Students may check out circulating books for 3 weeks and fiction DVDs for 3 days by presenting a valid SurgeCard (ID card). Books may be renewed up to 6 times, provided no one has placed a hold on the item. DVDs are not renewable.

All circulating items incur fines of 50 cents per day if overdue. Items not returned within 30 days of being overdue will be billed at a rate of at least \$85 per item to cover the replacement and processing costs. Upon return of the overdue item, the charge is reduced to \$35 per item. All fines and bills are added to student accounts and can be paid at the Cashier's Office.

Cincinnati State is a member of the Ohio Library Information Network, also known as OhioLINK. This network provides access to a central catalog of the colleges and universities throughout Cincinnati and Ohio. Students can request books from any other OhioLINK library through this system. Items are usually delivered within 5 days and are checked out for 3 weeks and can be renewed up to 6 times. Overdue fines of 50 cents per day are charged for books borrowed from other libraries. A bill of \$125 per item is generated for books overdue for 30 days, but reduced to \$50 if the item is returned.

Cincinnati State students also have access to a number of libraries in the area through the SWON Libraries (Southwest Ohio and Neighboring Libraries). To use the member libraries, students must obtain a SWON Common Patron ID card at the Circulation Desk in the Berry Library. SWON's website, www.swonlibraries.org (http://

www.swonlibraries.org), provides access to a member directory and lending policies.

The library's media collection provides a variety of popular and instructional videos which are available for students to view in the library during open hours. Media items in the Fiction and Biography sections are available for a 3-day check-out by students.

Laptops and Reserve items (including some textbooks) are available at the Check Out Desk to check out for 2 hours of in-library use. A SurgeCard (ID card) is required. The laptops contain the software found in College computer labs and connect to the internet via a wireless network. Students with overdue laptops or reserve items are subject to a fine of \$5 for each hour the laptop or reserve item is late.

Group study rooms (4 rooms in total) are available for groups of two or more for 2-hour periods. A variety of tables, desks, and carrels for individual study are present throughout the library. Two coin-operated copiers are available. Copies are 10 cents per page, but scanning to a student's external storage drive is free. Students can also print documents from library computers and laptops using print funds allocated to their SurgeCard ID cards.

MyServices

MyServices is the pathway to web-based student services at Cincinnati State. Through MyServices, students can register, add, and drop classes; view and print class schedules; make payments; check on financial aid status; view and print grade reports; and access a variety of other services. To access MyServices, go to the Cincinnati State website at www.cincinnatistate.edu, and then choose MyCState. Log in with username and password, and then choose the MyServices tab.

Study Abroad

To facilitate opportunities for study outside the U.S., Cincinnati State has affiliation agreements with the University of Arizona Yangtze International Study Abroad program (YISA) and International Studies Abroad (ISA). Students are not limited to these programs and are free to participate in other school/organization-sponsored programs.

For more information, call the International Students Office at (513) 569-4769.

Success/Tutoring Center

Cincinnati State provides free tutoring services to any student enrolled at the College. There are two locations in the Main Building of the Clifton Campus: Room 261 and Room 228B.

The Success/Tutoring Centers at Cincinnati State serve as resources to support, improve, and enhance student learning. In addition to faculty and staff volunteers and paid staff, student tutors provide peer-to-peer support. Student tutors have received an A or B in their coursework and must be recommended by Cincinnati State faculty members. Student tutors are trained to provide effective support.

Tutoring can be provided for most courses when students request assistance. Tutors can share ideas, interpret and clarify terms, answer questions, and guide students' efforts. However, tutors will not do the tutored student's homework and will not correct written work before it is turned in. The student receiving tutoring must attend class regularly, read the textbook, be prepared for tutoring sessions, have relevant

questions, and complete all homework assignments. These efforts will facilitate academic success.

For more information, email successcenter@cincinnatistate.edu, or call (513) 569-1614.

TRIO/Support Services for Students

TRIO Student Support Services (SSS) is funded by the U.S Department of Education through a grant. The goal of TRIO Student Support Services at Cincinnati State is to increase college retention and graduation rates among the participants, and help students learn to progress from one level of higher education to the next.

TRIO provides educational opportunity for first generation, low-income, and disabled students. Students are admitted to the program because of a level of academic need that is based on transcript data, study skills mastery, college and career goals, understanding of financial aid, test scores, college readiness, ESL (if applicable), and/or other issues that can affect the student's ability to succeed in college.

TRIO provide eligible students with individualized academic resources and advising to develop academic plans and goals, and enhance the student's college experience by creating an institutional climate of support.

For more information contact the TRIO SSS office in Main Building Room 131B (Clifton Campus), or call (513) 569-4797.

Veterans Affairs

The Office of Veteran Student Affairs at Cincinnati State offers assistance to veterans, eligible dependents, and selected reservists who wish to initiate, continue, or resume using their VA educational benefits.

The office provides benefit counseling, assistance with filing claims to the Department of Veterans Affairs, admission advising, and referrals to other support services on campus and in various community agencies. The office also monitors student degree plans and graduation progress.

The State Approving Agency for Veterans Training has approved Cincinnati State for the education and training of veterans and all their dependents under all existing public laws.

For more information, contact the Veteran Student Affairs Office in Main Building Room 135 (Clifton Campus), or call (513) 569-1543.

Writing Center

The Cincinnati State Writing Center, located in Main Building Room 235 (Clifton Campus), offers instructional support, free of charge, to students whose coursework includes written assignments.

The Writing Center's mission is to provide students with the best help possible. Writing Center instructors are qualified, experienced writing instructors who teach a variety of classes at Cincinnati State or other institutions. They are familiar with the requirements and expectations of Cincinnati State courses involving writing.

Limited walk-in service is available at the Writing Center, but appointments are preferred. Students should log into their Cincinnati State account and use Starfish to schedule appointments with Writing Center instructors.

Campus Life Services

Athletics

Cincinnati State athletics provide opportunities for students to enhance their overall experience at the college by encouraging lifelong wellness, sportsmanship, and academics.

Cincinnati State currently fields teams in two sports: women's and men's soccer.

Teams regularly compete under the rules and regulations of the National Junior College Athletic Association Region XII (Indiana, Michigan, and Ohio) and play a competitive junior college schedule. After playing for the Surge, many student-athletes have gone on to play for four-year institutions.

More information is available in the Athletics (http://www.cincinnatistate.edu/students/calendars/athletics-calendar) section of the College website.

Student Activities

The Office of Student Activities, located in Room 204 of the ATLC building (Clifton Campus), provides services and programming for all students. These activities provide experiential learning options outside the classroom, promoting lifelong learning and building skills needed for academic success and college completion.

Student Activities provides opportunities for students to participate in a diverse range of activities and events on- and off-campus, including club/organization memberships as well as social and educational events. Students are encouraged to get involved in the planning and implementation of campus events and social activities.

Upcoming campus events are announced to students via College email and social media accounts, events calendars, and notices posted on campus.

Clubs and Organizations

Students are encouraged to join clubs and organizations that appeal to their academic and social interests. Student organization offices are located in the Office of Student Activities.

New clubs and organizations must be chartered through the Office of Student Activities and the Student Government. Additional information is available from the Office of Student Activities.

Current student clubs and organizations are:

Adult Learners on Campus

American Culinary Federation Junior Chapter at MCI

American Society of Civil Engineers

Black Male Initiative

Cincinnati State Baja SAE

Cincinnati State Beekeeping Club

Cincinnati State Biology Club

Cincinnati State Chapter of SkillsUSA

Cincinnati State Cheer Team

Cincinnati State Gamers Club

Cincinnati State Historical Club

Cincinnati State Women's Network

Cincy4Christ

Creative Writing for Cincinnati State

Early Childhood Club **Environmental Club** Food Pantry Club Health & Fitness Club Honors Club Horticulture Club In the Zone International Student Association Interpreter Training Club Leadership Club **Nursing Student Organization** Phi Theta Kappa Psychology Club Respiratory Care Club Society of Women Engineers Spanish Club Student Occupational Therapy Association (SOTA)

Student Government

All students are encouraged to attend Student Government meetings. The Student Government is involved in student activities and acts as a liaison between students and the College administration. Additional information is available through the Office of Student Activities.

Surge Cards

Every student enrolled in classes is required to have a College identification card (SurgeCard) with them at all times for security purposes. The initial SurgeCard is free and is available from Student Activities, in Room 204 of the ATLC building (Clifton Campus), after a student has registered for classes that semester.

The SurgeCard is required to use some campus services such as the Library, the Fitness Center, computer lab printing, and admission to College sports activities. Additional uses for the SurgeCard include the bookstore, food services, day care door access for qualified parents, and other services.

Every registered student receives a credit for \$15.00 on their SurgeCard each semester to be used for printing documents in College computer labs.

To replace a lost SurgeCard, go to the Cashier's office in the Main Building (Clifton Campus) and pay a \$10.00 fee. Bring the receipt for this payment to the Student Activities office and a replacement SurgeCard will be issued.

A SurgeCard is required to obtain information about available financial aid funds that can be used to purchase books in the College bookstore. Financial aid funds are never deposited on the SurgeCard.

More information about SurgeCards is available from the Student Activities Office, or phone (513) 569-5747.

Course Descriptions

Cooperative Education/Experiential Learning Courses

Each degree program that includes **cooperative education** and/ or **internship** experiences has a set of assigned courses that are included in this Catalog. Each time a student registers for a co-op or internship experience, a different course number will be required, using the numbering system below:

- Part-Time co-op registration uses course numbers 191 through 196
- Full-Time co-op registration uses course numbers 291 through 293
- Internship registration uses course numbers 294 and 295

Clinical experience, directed practice, practicum, and other types of experiential learning courses in various degree programs use varied course numbers. All of these courses are listed in this Catalog.

Students with questions about registration for co-op or other experiential learning course should talk to their academic Program Chair or Cooperative Education Coordinator for additional information.

ACC

Courses

ACC 101 Financial Accounting 3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introduction to financial accounting and financial reporting for business entities. Topics include: the accounting cycle, inventories, cash, receivables, plant assets, current liabilities, stock transactions, long-term liabilities, and cash flows.

Prerequisites: None

Ohio Transfer Assurance Guide Approved

ACC 102 Managerial Accounting 3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introduction to managerial accounting for business entities. Topics include: job-order and process costing, cost behavior and cost-volume-profit analysis, activity based costing, budgeting, standard costs, performance evaluation, relevant costs and capital budgeting.

Prerequisites: ACC 101

Ohio Transfer Assurance Guide Approved

ACC 110 Accounting Information Systems 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on documentation, design, and operation of accounting information systems. Topics include: internal control, business processes, flowcharting, developing an accounting information system, and evaluating accounting software.

Prerequisites: ACC 101

ACC 115 Accounting Software Applications: Sage (Peachtree) 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on processing business transactions using Sage Accounting (Peachtree) software. Topics include: processing information; internal controls; reports; and activities related to the sales and cash receipts cycle, the purchases and cash disbursements cycle, and the payroll cycle.

Prerequisites: ACC 101

ACC 121 Computerized Bookkeeping: QuickBooks 1 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on processing transactions for small businesses using QuickBooks accounting software. Topics include: processing banking, customer, vendor, inventory, and payroll transactions; and generating and customizing financial reports. The course is delivered in a 7-week schedule.

Prerequisites: ACC 101

ACC 122 Computerized Bookkeeping: QuickBooks 2 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A continuation of ACC 121. Topics include: setting up a new company, processing transactions for the entire accounting cycle of service companies and merchandising corporations, processing bad debts, processing credit card sales, and budgeting. The course is delivered in a 7-week schedule.

Prerequisites: ACC 101

ACC 130 Payroll Procedures

3 Credits. 3 Lecture Hours. 0 Lab Hour.A course on payroll accounting and procedures. Topics include: payroll regulations and record keeping; computations of gross pay, employee

withholdings and employer payroll taxes; and preparation of payroll tax returns.

Prerequisites: ACC 101

ACC 135 Financial Statement Analysis 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on understanding and interpreting corporate annual reports. Topics include: trend analysis, common-size statements, and ratio

Prerequisites: ACC 101

ACC 140 Fund Accounting for Non-profit Organizations 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles and practices of accounting for non-profit organizations including government entities, school systems, colleges and universities, and charitable and religious organizations. Topics include: transaction analysis, appropriations, encumbrances, budgeting, and financial reporting.

Prerequisites: ACC 101

ACC 175 Federal Taxation: Individuals 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on federal income taxation as it relates to individual taxpayers. Topics include: elements of the tax formula, tax issues associated with self-employment, and depreciation. Students prepare multiple tax returns and related schedules.

Prerequisites: None

ACC 180 Federal Taxation: Business 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on federal income taxation as it relates to corporations, partnerships, and S corporations. Topics include: the elements of the tax formula, advanced tax issues, and property transactions. Students prepare multiple tax returns and related schedules.

Prerequisites: ACC 175

Cincinnati State

ACC 185 State and Local Taxation

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on state and local income taxes, including payroll and unemployment taxes. Topics include: income and personal taxes, real estate taxes, sales and use taxes, and multi-state taxation. Students prepare multiple tax returns and related schedules.

Prerequisites: ACC 101

ACC 191 Part-Time Cooperative Education 1: Accounting 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

ACC 192 Part-Time Cooperative Education 2: Accounting 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 191

ACC 193 Part-Time Cooperative Education 3: Accounting 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 192

ACC 194 Part-Time Cooperative Education 4: Accounting 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 193

ACC 195 Part-Time Cooperative Education 5: Accounting 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 194

ACC 196 Part-Time Cooperative Education 6: Accounting 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 195

ACC 198 First Year Special Topics in Accounting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to accounting that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ACC 199 First Year Independent Project in Accounting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Accounting that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Accounting faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ACC 201 Intermediate Accounting 1 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on theory and techniques of financial accounting. Topics include: preparing required financial statements and disclosures; accounting for cash, accounts and notes receivable, inventory, plant and equipment, and intangible assets; analyzing financial statements; and international standards.

Prerequisites: ACC 101

ACC 202 Intermediate Accounting 2 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of ACC 201. Topics include: liabilities, stockholders' equity, investments, revenue recognition, income taxes, pension, leases, changes and disclosures in financial reporting, international standards, and analyzing financial statements.

Prerequisites: ACC 201

ACC 210 Cost Accounting

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles and practices of cost accounting related to manufacturing and services businesses. Topics include: overhead rates, absorption and variable costing, job-order and process costing, standard costing and variance analysis, joint costs, cost allocations, and cost management.

Prerequisites: ACC 102

ACC 221 Volunteer Income Tax Assistant 1 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on preparing federal and state income tax returns for low income and elderly taxpayers under the Internal Revenue Service? s Volunteer Income Tax Assistant (VITA) and Tax Counseling for the Elderly (TCE) programs. Students must pass the Basic Level Certified VITA Volunteer exam to earn credit for this course.

Prerequisites: ACC 175

ACC 222 Volunteer Income Tax Assistant 2 3 Credits. 1 Lecture Hour. 4 Lab Hours.

A service learning course on preparing federal income tax returns under the Internal Revenue Service?s Volunteer Income Tax Assistant (VITA) program. Topics include: tax interviews, assisting in tax return preparation for students and community members, and preparing for Advanced Level VITA Volunteer certification.

Prerequisites: ACC 221

ACC 230 Professional Ethics for Accountants 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the ethical obligations of accountants. Topics include: codes of conduct of various professional accounting organizations, accounting scandals, and ethical decision-making.

Prerequisites: ACC 201

ACC 240 Bookkeeping Certification Review 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course that prepares students for the American Institute of Professional Bookkeepers Certified Bookkeeper examination. Topics include: adjusting entries, correcting accounting errors, payroll, depreciation, inventory, and internal controls and fraud prevention. Prerequisites: ACC 102 and ACC 130

ACC 250 Advanced Taxation

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on advanced taxation concerns such as tax research; tax returns required for trusts, estates, and nonprofit organization; and requirements for professional tax preparers.

Prerequisites: ACC 180

ACC 270 Auditing

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on the objectives of auditing and assurance services. Topics include: impact of the Sarbanes-Oxley Act on the auditing profession, audit reports, auditing standards, professional ethics, evidence, audit planning and testing, and internal controls and systems documentation.

Prerequisites: ACC 201

ACC 291 Full-Time Cooperative Education 1: Accounting 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

ACC 292 Full-Time Cooperative Education 2: Accounting 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 291

ACC 293 Full-Time Cooperative Education 3: Accounting 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: ACC 292

ACC 298 Second Year Special Topics in Accounting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Accounting, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ACC 299 Second Year Independent Project in Accounting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Accounting that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Accounting faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

Courses

ADC 100 Drugs in Society

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the use and abuse of drugs and alcohol. Topics include: causes of drug abuse, prevention, early intervention, and treatment programs.

Prerequisites: None

ADC 105 Addiction, Counseling, and Diversity 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of addiction studies, emphasizing the importance of cultural competency in substance abuse counseling.

Prerequisites: AFL 085 (or appropriate placement test score), and ADC 100 or 15 RCHs and Program Chair consent

ADC 110 Pharmacology of Addiction

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on psychological and physiological effects of mood-altering substances. Topics include: physical and psychological characteristics of addiction; drug tolerance, dependency, and withdrawal; cross addictions; and drug interactions.

Prerequisites: AFL 085 (or appropriate placement test score), and ADC 100 or 15 RCHs and Program Chair consent

ADC 115 Ethics in Addiction Treatment

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on ethical and legal issues in the field of substance abuse counseling. Topics include: the counselor as a professional, values and helping relationships, client rights and counselor responsibilities, and ethics and cultural sensitivity.

Prerequisites: AFL 085 (or appropriate placement test score), and ADC 100 or 15 RCHs and Program Chair consent

ADC 120 Addiction Screening, Assessment, and Treatment 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on systematic approaches to addiction counseling. Topics include: making appropriate referrals, using community resources, collaborating in the counselor/client relationship, and planning and implementing treatment.

Prerequisites: ADC 105, ADC 110

ADC 125 Relapse, Treatment, and Prevention 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on factors that influence relapse in drug and alcohol abuse and best practices for preventing and treating relapse.

Prerequisites: ADC 105, ADC 110

ADC 198 First Year Special Topics in Addiction Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Addiction Studies, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ADC 199 First Year Independent Project in Addiction Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Addiction Studies that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Addiction Studies faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section



ADC 200 Dual Diagnosis: Substance Abuse and Ment 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on co-occuring psychiatric and substance abuse disorders and their impact on the individual, family, and community. Topics include: differential diagnosis of chemical dependency and mental disorders; assessment strategies; intervention approaches; and working with clients with dual disorders, including addicted trauma survivors.

Prerequisites: ADC 120

ADC 205 Addiction Studies Practicum 2 Credits, 1 Lecture Hour, 7 Lab Hours.

Students spend at least seven hours per week in a substance abuse/ addiction facility that serves culturally, linguistically, and socio-economically diverse populations, under the supervision of a Licensed Certified Chemical Dependency Counselor, Licensed Independent Social Worker or other professional with a Master of Social Work degree.

Prerequisites: ADC 115, ADC 120, ADC 125

ADC 298 Second Year Special Topics in Addiction Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Addiction Studies, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ADC 299 Second Year Independent Project in Addiction Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Addiction Studies that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Addiction Studies faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

AFL

Courses

AFL 080 Fundamentals of College Reading and Writing 5 Credits. 5 Lecture Hours. 0 Lab Hour.

A course that integrates reading and paragraph-writing skills with strategies needed to succeed in other college courses. Students must earn a minimum grade of C to pass this course.

Prerequisites: Appropriate placement test score

AFL 085 Applications of College Reading and Writing 5 Credits. 5 Lecture Hours. 0 Lab Hour.

A course that integrates critical reading and essay-writing skills with strategies needed to succeed in other college courses. Students must earn a minimum grade of C to pass this course.

Prerequisites: AFL 080 (minimum grade C) or appropriate placement test score

AFL 098 First Year Special Topics in Academic Foundations: Language Arts

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Academic Foundations: Language Arts, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

AFL 099 First Year Independent Project in Academic Foundations: Language Arts

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Academic Foundations: Language Arts that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by AFL faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

AFM

Courses

AFM 090 Foundations of Basic Mathematics 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on using basic arithmetic operations to solve problems in a variety of contexts. Topics include: whole numbers, fractions, percents, proportional reasoning, and simple linear equations. Students must earn a minimum grade of C to pass this course.

Prerequisites: Appropriate placement test score

AFM 091 Pre-Algebra

2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on using basic arithmetic operations to solve problems in a variety of contexts. Topics include: integers, fractions, decimals, percents, variables, and algebraic expressions. Students must earn a minimum grade of C to pass. This course is delivered in a 7-week schedule.

Prerequisites: Appropriate placement test score

AFM 092 Introductory Algebra

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on solving problems with algebra. Topics include: algebraic expressions; linear equations of one and two variables; graphing; slope and rate of change; and algebraic, graphic, and numerical representation. Students need a graphing calculator. Students must earn a minimum grade of C to pass. This course is delivered in a 7-week schedule.

Prerequisites: AFM 091 (minimum grade C) or AFM 090 (minimum grade C), or appropriate placement test score

AFM 094 Basic Algebra

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on solving problems with algebra. Topics include: exponents; scientific notation; polynomials; systems of linear equations; and algebraic, graphic, and numerical representation. Students need a graphing calculator. Students must earn a minimum grade of C to pass. This course is delivered in a 7-week schedule.

Prerequisites: AFM 092 (minimum grade C) or AFM 095 (minimum grade C), or appropriate placement test score

AFM 095 Foundations of Basic Algebra 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on investigating, representing, and solving problems with algebra. Topics include: literal equations; scientific notation; and algebraic, graphic, and numerical representation. Students must earn a minimum grade of C to pass this course.

Prerequisites: AFM 090 or AFM 092 (minimum grade C for both), or appropriate placement test score

AFM 097 Intermediate Algebra

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on mathematical modeling and problem solving. Topics include: factoring polynomials; polynomial, radical, and rational functions; and quadratic equations. Students need a graphing calculator. Students must earn a minimum grade of C to pass. This course is delivered in a 7-week schedule.

Prerequisites: AFM 094 (minimum grade C), or appropriate placement

test score

AFM 098 First Year Special Topics in Academic Foundations: Math

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Academic Foundations: Math, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

AFM 099 First Year Independent Project in Academic

Foundations: Math

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Academic Foundations: Math that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by AFM faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

AGR

Courses

AGR 100 Introduction to Urban Agriculture

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on practices for cultivating, processing, and distributing food in or near a village, town, or city. Topics include: history and politics of urban agriculture, and urban farm design.

Prerequisites: None

AGR 105 Vegetable Crop Production 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and skills for production of vegetable crops. Topics include: business principles of specialty crops including planning, budgeting, production and harvest. Students must attend off-campus field trips.

Prerequisites: None

AGR 135 Fruit and Nut Production

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the classification, identification, and culture of fruit and nut trees and shrubs for food production. Field trips are required.

Prerequisites: None

AGR 140 Pest and Policy Management for Specialty Crops 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on principles and practices for identifying, diagnosing, and controlling common insect, disease, and weed pests in specialty crop production. Topics include: integrated pest management, organic farming principles, and farm policy and certification.

Prerequisites: None

AGR 150 Fall Production

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on producing, harvesting, storing, and selling fall crops, with emphasis on sustainable agriculture techniques.

Prerequisites: None

AGR 155 Spring Production

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on producing, harvesting, storing, and selling spring crops, with emphasis on sustainable agriculture techniques.

Prerequisites: None

AGR 160 Summer Production

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on producing, harvesting, storing, and selling summer crops, with emphasis on sustainable agriculture techniques.

Prerequisites: None

AHT

Courses

AHT 100 Workflow and Information Design for Heal 15 Credits. 13 Lecture Hours. 4 Lab Hours.

A course on foundation concepts related to redesign of workflow and information management in health information technology systems. Topics include: basics of computer science, health information management systems, networking, and health information exchange; culture and terminology of healthcare; usability and human factors; and quality improvement. The course is delivered through online instruction

Prerequisites: Admitted to WDC Health Information Technology

training program

Instructor Consent Required

AHT 105 Consulting for Health Information Techno 15 Credits. 13 Lecture Hours. 4 Lab Hours.

A course on foundation concepts related to clinician and practitioner consulting in health information technology. Topics include: health information technology history and systems; public health; planning, management, leadership, and teamwork in health information technology; and quality improvement. The course is delivered through online instruction only.

Prerequisites: Admitted to WDC Health Information Technology training program

Instructor Consent Required

AHT 110 Implementation Support for Health Inform 15 Credits. 13 Lecture Hours. 4 Lab Hours.

A course on foundation concepts related to implementing support for health information technology systems. Topics include: health information technology history; networking and health information exchange; installing and maintaining health information technology systems; configuring Electronic Health Records; and analyzing vendor-specific systems. The course is delivered through online instruction only

Prerequisites: Admitted to WDC Health Information Technology training program

Instructor Consent Required

AHT 115 Implementation Management for Health Inf 15 Credits. 13 Lecture Hours. 4 Lab Hours.

A course on foundation concepts related to managing the implementation of health information technology systems. Topics include: culture and terminology of healthcare; public health; customer service in healthcare; project management and teamwork in health information technology; and analyzing vendor-specific systems. The course is delivered through online instruction only.

Prerequisites: Admitted to WDC Health Information Technology training program

AHT 120 Technical and Software Support for Healt 15 Credits. 13 Lecture Hours. 4 Lab Hours.

A course on foundation concepts related to providing technical and software support for health information technology systems. Topics include: basics of computer science and health information management systems; usability and human factors; installing and maintaining health information technology systems; configuring Electronic Health Records; and analyzing vendor-specific systems. The course is delivered through online instruction only. Prerequisites: Admitted to WDC Health Information Technology training program

AMT

Courses

AMT 100 Aviation Standard Practices 6 Credits. 4 Lecture Hours. 6 Lab Hours.

A course that uses FAA-approved instruction for foundation concepts and techniques in aviation maintenance. Topics include: fluid lines and fittings, materials and processes, and cleaning and corrosion control. Prerequisites: AFL 085 or appropriate placement test score

AMT 105 Aircraft Orientation

4 Credits. 2 Lecture Hours. 5 Lab Hours.

A course on foundation concepts in aviation maintenance. Topics include: aircraft drawings, ground operations and servicing, mechanic privileges, and basic concepts of physics.

Prerequisites: AFL 085 or appropriate placement test score

AMT 110 Aircraft Electricity

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course that uses FAA-approved instruction for foundation concepts and techniques in aviation maintenance. Topics include: basic concepts of math, physics, and electricity; aircraft drawings; and maintenance forms and records.

Prerequisites: MAT 120 or appropriate placement test score

AMT 115 Aircraft Weight and Balance

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on foundation concepts and techniques related to aircraft weight and balance. Topics include: maintenance forms and records, and maintenance publications.

Prerequisites: MAT 120 or appropriate placement test score

AMT 120 Aircraft Non-Metal Structures 5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on wood structures, aircraft covering, aircraft finishes, and inspection of bonded structures.

Prerequisites: AMT 105

AMT 125 Aircraft Metal Structures

5 Credits. 3 Lecture Hours. 5 Lab Hours.

A course on repairing and maintaining sheet metal structures. Topics include: selecting and installing rivets and fasteners, forming and bending sheet metal, and laying out repairs.

Prerequisites: AMT 100 and AMT 105

AMT 130 Aircraft Welding Processes

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on welding of magnesium, titanium, aluminum, and steel in aircraft. The course does not prepare students for certification specific to welding.

Prerequisites: None

AMT 135 Aircraft Landing Gear Systems

5 Credits. 3 Lecture Hours. 5 Lab Hours.

A course on repairing and maintaining aircraft landing gear systems and hydraulic and pneumatic power systems.

Prerequisites: AMT 105 and MAT 121

AMT 140 Airframe Electrical Systems

6 Credits. 4 Lecture Hours. 4 Lab Hours.

A course on troubleshooting aircraft electrical systems and inspecting direct current generators.

Prerequisites: AMT 105 and AMT 110

AMT 145 Airframe Electronic Systems

2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on aircraft instrument systems and communication and navigation systems.

Prerequisites: AMT 105 and AMT 110

AMT 150 Airframe Systems

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on systems for cabin atmosphere and control, position and warning, ice and rain control, fire protection, and aircraft fuel.

Prerequisites: AMT 100, AMT 105, and AMT 110

AMT 155 Airframe Assembly and Rigging

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on balancing rigging, and inspecting primary and secondary flight controls of rotor and fixed wing aircraft.

Prerequisites: AMT 100, AMT 105, and MAT 121

AMT 160 Airframe Inspection

2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on inspection of airframes and sheet metal structures, repair of sheet metal structures, and conformity inspections on rotor and fixed wing aircraft.

Prerequisites: AMT 105 and AMT 115

AMT 191 Part-Time Cooperative Education 1: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 100

AMT 192 Part-Time Cooperative Education 2: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 191

AMT 193 Part-Time Cooperative Education 3: Aviation **Maintenance Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 192

AMT 194 Part-Time Cooperative Education 4: Aviation **Maintenance Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 193

AMT 195 Part-Time Cooperative Education 5: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 194

AMT 196 Part-Time Cooperative Education 6: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 195

AMT 198 First Year Special Topics in Aviation Maintenance Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Aviation Maintenance Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

AMT 199 First Year Independent Project in Aviation Maintenance Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Aviation Maintenance Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Aviation Maintenance Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

AMT 201 Powerplant Maintenance 1 6 Credits, 4 Lecture Hours, 6 Lab Hours,

A course that uses FAA-approved instruction for concepts and techniques in inspection and repair of radial engines; overhaul of reciprocation engines; and inspection, check, service and repair of reciprocating engines and engine systems.

Prerequisites: AMT 100 and AMT 105

AMT 202 Powerplant Maintenance 2 6 Credits. 4 Lecture Hours. 6 Lab Hours.

A continuation of AMT 201, using FAA-approved instruction for concepts and techniques in installation, troubleshooting, and removal of reciprocating engines; overhaul of turbine engines; and induction and engine airflow systems.

Prerequisites: AMT 201

AMT 203 Powerplant Maintenance 3 6 Credits. 4 Lecture Hours. 6 Lab Hours.

A continuation of AMT 202, using FAA-approved instruction in the subject areas of inspection, check, service, and repair of turbine engines and turbine engine installations; installation, troubleshooting, and removal of turbine engines; performing powerplant conformity and airworthiness inspection; engine exhaust and reverser systems; unducted fans; and auxiliary power units.

Prerequisites: AMT 202

AMT 205 Starting and Ignition Systems

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course that uses FAA-approved instruction for concepts and techniques in ignition and starting systems for reciprocating and turbine aircraft engines. Topics include: inspection, troubleshooting, and repair.

Prerequisites: AMT 105 and AMT 110

AMT 210 Engine Fuel and Lubrication Systems 6 Credits. 4 Lecture Hours. 6 Lab Hours.

A course that uses FAA-approved instruction for concepts and techniques in lubrication systems, fuel metering systems, and engine fuel systems.

Prerequisites: AMT 100 and AMT 105

AMT 215 Aircraft Propellers

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course that uses FAA-approved instruction for concepts and techniques in removal, installation, inspection, and repair of fixed and variable pitch aircraft propellers and propeller governing systems.

Prerequisites: AMT 105 and AMT 115

AMT 271 Avionics 1

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on concepts and skills for repair of avionics equipment. Topics include: procedures used by air carriers and repair stations; avionics publications, forms, and records; tools and equipment; buildup of wire bundles; review of Boolean Algebra; and ARINC codes.

Prerequisites: AMT 155

AMT 272 Avionics 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of AMT 271. Topics include: logic gates, troubleshooting analog and digital electronic systems to line replicable units, amplifier theory, on-board navigation and maintenance computer systems, and intercom and passenger entertainment systems.

Prerequisites: AMT 271

AMT 291 Full-Time Cooperative Education 1: Aviation Maintenance Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

AMT 292 Full-Time Cooperative Education 2: Aviation Maintenance Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 291

AMT 293 Full-Time Cooperative Education 3: Aviation Maintenance Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 292

AMT 294 Internship 1: Aviation Maintenance Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 100

AMT 295 Internship 2: Aviation Maintenance Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 294

AMT 298 Second Year Special Topics in Aviation Maintenance Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Aviation Maintenance Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

AMT 299 Second Year Independent Project in Aviation Maintenance Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Aviation Maintenance Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Aviation Maintenance Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

ART

Courses

ART 110 Introduction to Art

3 Credits, 3 Lecture Hours, 0 Lab Hour,

Study of visual artistic expression in Western culture from ancient times to the present. Topics include: examining painting, sculpture, architecture, and other media for their style, function, and relationship to the historical and cultural developments of the period.

Prerequisites: None

Ohio Transfer Module Approved

ART 111 Art History: Ancient to Medieval Periods 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of world art including major works of painting, sculpture, and architecture of the Ancient and Medieval periods.

Prerequisites: None

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

ART 112 Art History: Renaissance to the Present 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of world art including major works of painting, sculpture, and architecture of the Renaissance, Baroque, and Modern periods.

Prerequisites: None

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

ART 120 Design History

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on historical trends in two-dimensional and three-dimensional design. Topics include: key developments and contributors, design language, and effective description of design concepts in written and spoken communication.

Prerequisites: ENG 101 (minimum grade C)

ART 125 Design Principles

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental principles and techniques for effective visual composition in print and multimedia applications.

Prerequisites: None

ART 130 Photography

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of photography for personal and professional expression, using film-based 35mm cameras.

Prerequisites: None

ART 141 Drawing 1

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamental techniques of drawing in pencil and other media, emphasizing visual observation and realistic expression.

Prerequisites: None

Ohio Transfer Assurance Guide Approved

ART 142 Drawing 2

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of ART 141, emphasizing drawing the human figure.

Prerequisites: ART 141

Ohio Transfer Assurance Guide Approved

ART 143 Drawing 3

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of ART 142, emphasizing independent development of a cohesive body of work using traditional and non-traditional drawing media and tools.

Prerequisites: ART 142 or instructor consent

ART 145 Drawing with Pastels and Colored Pencils 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamental techniques of drawing, using a variety of pastels and colored pencils to demonstrate understanding of color

Prerequisites: ART 141 or instructor consent

ART 150 Watercolor

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamental principles and techniques of watercolor painting. Topics include: basic tools, color theory, brush techniques, styles, and framing and matting.

Prerequisites: None

ART 161 Sculpture 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental techniques of sculpture using clay and other materials.

Prerequisites: None ART 162 Sculpture 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of ART 161, emphasizing envisioning and creating three-dimensional art works.

Prerequisites: ART 161

ART 198 First Year Special Topics in Art 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Art, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ART 199 First Year Independent Project in Art

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Art that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Art faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ART 298 Second Year Special Topics in Art 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Art, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ART 299 Second Year Independent Project in Art 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Art that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Art faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

AUTO

Courses

AUTO 100 Introduction to Automotive Technology 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on foundation concepts of the automotive industry. Topics include: safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance.

Prerequisites: None

AUTO 111 Engine Repair

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on internal combustion engines. Topics include: engine classification, identification of parts, disassembly, inspection, and measurement; failure analysis; reassembly; and tools and procedures used in the engine rebuilding process.

Prerequisites: AUTO 100

AUTO 140 Suspension and Steering 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on operation, diagnosis, service, and repair of steering and suspension systems. Topics include: wheels and tires, front and rear suspension systems for front-wheel drive and rear-wheel drive vehicles, and wheel alignment angles.

Prerequisites: AUTO 100 and AUTO 161

AUTO 150 Brakes

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on operation, diagnosis, service, and repair of automotive braking systems. Topics include: hydraulic, mechanical, and anti-lock braking systems; power assist units; and machine operations of drums and rotors.

Prerequisites: AUTO 100 and AUTO 161

AUTO 161 Electrical/Electronic Systems 1 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on systematic diagnosis and repair of basic automotive electrical circuits. Topics include: Ohm's law, interpreting wiring schematics, step-by-step testing procedures, starting and charging systems, and automotive component testing.

Prerequisites: None

AUTO 162 Electrical/Electronic Systems 2 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of AUTO 161. Topics include: wiring schematic interpretation, diagnosis, and repair of driver information systems, cruise control systems, motor driven accessories, heated glass, and electronic body control systems.

Prerequisites: AUTO 100 and AUTO 161

AUTO 170 Heating and Air Conditioning 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on diagnosis, service, and repair of automotive air conditioning and heating systems. Topics include: performance testing, pressure and leak testing, electrical and mechanical controls, compressors, clutches, safety devices, and ozone-safe service. Prerequisites: AUTO 100 and AUTO 161

AUTO 175 Powertrain Systems and Service 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on assessment and replacement of major powertrain components. Topics include: procedures for replacing and servicing engines, drivetrain components, automatic transmissions, manual transmissions, and differentials.

Prerequisites: AUTO 100 and AUTO 111 and AUTO 161 Instructor Consent Required

AUTO 181 Engine Performance 1 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on engine performance diagnostics and fuel injection and ignition systems. Topics include: evaluation of basic engine mechanical system through vacuum, cylinder power balance, compression, and cylinder leakage testing.

Prerequisites: AUTO 111 and AUTO 161

AUTO 182 Engine Performance 2 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of AUTO 181. Topics include: On-Board Diagnostics systems, scan tools that retrieve diagnostic codes and data, diagnostic flow charts, and testing and replacing computer sensor inputs and computer-controlled output components.

Prerequisites: AUTO 181

AUTO 191 Part-Time Cooperative Education 1: Automotive 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BUS 190 (minimum grade C)

AUTO 192 Part-Time Cooperative Education 2: Automotive 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AUTO 191

AUTO 193 Part-Time Cooperative Education 3: Automotive 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: AUTO 192

AUTO 194 Part-Time Cooperative Education 4: Automotive 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AUTO 193

AUTO 195 Part-Time Cooperative Education 5: Automotive 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: AUTO 194

AUTO 196 Part-Time Cooperative Education 6: Automotive 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AUTO 195

AUTO 198 First Year Special Topics in Automotive 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Automotive, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

AUTO 199 First Year Independent Project in Automotive 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Automotive that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Automotive faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

AUTO 291 Full-Time Cooperative Education 1: Automotive 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

AUTO 292 Full-Time Cooperative Education 2: Automotive 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AUTO 291

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AUTO 293 Full-Time Cooperative Education 3: Automotive 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AUTO 292

AUTO 298 Second Year Special Topics in Automotive 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Automotive, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

AUTO 299 Second Year Independent Project in Automotive 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Automotive that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Automotive faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

AVP

Courses

AVP 100 Introduction to Audio/Video Production 4 Credits, 4 Lecture Hours, 1 Lab Hour,

A course on foundation principles of videography and lighting, audio and sound design, and video editing and post production. Topics include: industry vocabulary, workflow, and professional practices. Prerequisites: None

AVP 110 Videography: Single Camera Production and Lighting 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for single camera video production. Topics include: industry terminology, pre-production and planning, camera types and formats, shot composition, and use of gripping and support equipment.

Prerequisites: AVP 100 (minimum grade C)

AVP 120 Digital Video Editing

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on non-linear digital video editing, with additional focus on storytelling and production workflow. Topics include: session set up, media management and acquisition, basic editing techniques, and output and delivery.

Prerequisites: AVP 100 (minimum grade C)

AVP 130 Audio: Editing Mixing

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for digital audio editing and mixing using ProTools HD and LE systems. Topics include: session set-up, routing, signal flow, equalization, dynamics control, and delivery.

Prerequisites: AVP 100 (minimum grade C)

AVP 191 Part-Time Cooperative Education 1: Audio/Video **Production**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

AVP 192 Part-Time Cooperative Education 2: Audio/Video Production

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: AVP 191

AVP 193 Part-Time Cooperative Education 3: Audio/Video Production

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: AVP 192

AVP 194 Part-Time Cooperative Education 4: Audio/Video Production

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: AVP 193

AVP 195 Part-Time Cooperative Education 5: Audio/Video Production

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: AVP 194

AVP 196 Part-Time Cooperative Education 6: Audio/Video Production

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AVP 195

AVP 198 First Year Special Topics in Audio/Video Production 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Audio/Video Production, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

AVP 199 First Year Independent Project in Audio/Video Production

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Audio/Video Production that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Audio/Video Production faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

AVP 210 Videography- Multi Camera Production and Lighting 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for multi camera video production. Topics include: industry terminology, pre-production and planning, camera types and formats, shot composition, and use of gripping and support equipment.

Prerequisites: AVP 110 (minimum grade C)

AVP 220 Video Editing and Compositing 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on advanced concepts and techniques for video editing. Topics include: text and motion graphics, composting, color correction, keyframing, and multicamera editing and effects.

Prerequisites: AVP 120 (minimum grade C)

AVP 230 Audio: Production/Sound Design 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on advanced concepts and techniques for audio production. Topics include: voice recording and direction, sound effects creation, music and editing, and mix-to-picture techniques.

Prerequisites: AVP 130 (minimum grade C)

AVP 240 Motion Graphics/Compositing: After Effects 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on professional techniques for using Adobe After Effects in video post-production of movies and commercials.

Prerequisites: GRD 120 and GRD 130 (minimum grade C for all)

AVP 250 Alternate Editing Platforms-Video 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on varieties of industry-standard software and hardware used for video editing.

Prerequisites: AVP 220 (minimum grade C)

AVP 255 Advanced Lighting Techniques 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on advanced lighting techniques. Topics include: principles of electricity, color theory, and gripping and lighting for various digital media formats.

Prerequisites: AVP 210 (minimum grade C)

AVP 260 Color Grading, Correction and Continunity 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on techniques for color correction and color grading. Topics include: balance and continuity, and creating emotional and special effect.

Prerequisites: AVP 220 (minimum grade C)

AVP 265 Video Compression- DVD Authoring 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on techniques for video compression and DVD authoring. Topics include: past and current video file CODEC and format types, and file delivery and compatibility.

Prerequisites: AVP 220 (minimum grade C)

AVP 270 Alternate Editing Platforms- Audio 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on varieties of industry-standard software and hardware used for audio editing.

Prerequisites: AVP 230 (minimum grade C)

AVP 275 Advanced Audio Mixing- 5.1 Surround 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on advanced mix techniques using five-channel (5.1) surround sound. Topics include: bass management, recording for surround, and final output.

Prerequisites: AVP 230 (minimum grade C)

AVP 280 Mulit Track Recording Techniques 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on techniques for multi-track recording from pre-production through final mix. Topics include: session flow and management, microphone placement, and mixing techniques.

AVP 285 AVP Independent Project

3 Credits. 2 Lecture Hours. 3 Lab Hours.

Prerequisites: AVP 230 (minimum grade C)

Qualified students work individually or with an approved team from concept to completion on a media production project, and present the results to reviewers. Topic and outline must be presented to a jury of instructors, and approved prior to course registration. Students who do not successfully complete the course may make one additional attempt.

Prerequisites: Audio/Video Production Program Chair consent, and minimum 3.0 GPA

Instructor Consent Required

AVP 290 Audio/Video Production Capstone 3 Credits. 2 Lecture Hours. 3 Lab Hours.

Qualified students work in structured teams to develop audio and video deliverables for an external client, and present the results to reviewers. Activities include audience, client, and market analysis; and all phases of production including pre- and post. Students who do not successfully complete the course may make one additional attempt. Prerequisites: Audio/Video Program Chair consent, and minimum 2.5 GPA

Instructor Consent Required

AVP 291 Full-Time Cooperative Education 1: Audio/Video Production

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

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AVP 292 Full-Time Cooperative Education 2: Audio/Video **Production**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AVP 291

AVP 293 Full-Time Cooperative Education 3: Audio/Video Production

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AVP 292

AVP 294 Internship 1: Audio/Video Production 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MID 190

AVP 295 Internship 2: Audio/Video Production 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AVP 294

AVP 298 Second Year Special Topics in Audio/Video Production 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Audio/Video Production, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

AVP 299 Second Year Independent Project in Audio/Video Production

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Audio/Video Production that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Audio/Video Production faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

BIO

Courses

BIO 100 Integrated Biology and Skills for Success in Science 6 Credits. 5 Lecture Hours. 3 Lab Hours.

A course on integrated biological, mathematical, and scientific laboratory skills needed for success in anatomy and physiology courses required for Health and Public Safety majors, as well as science courses in all majors. Topics include: biological, biochemical, and organismal processes; math fundamentals for science application; and introductory lab experiences. Students must pass a comprehensive exam to pass this course.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

BIO 111 Biology: Unity of Life

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on characteristics shared by all living organisms. Topics include: the nature of science, chemistry of life, cell biology, energetics and biochemical pathways, cell division, genetics, molecular biology, and the origin of life.

Prerequisites: AFL 085 and AFM 092 or appropriate placement test scores

Ohio Transfer Module Approved

BIO 112 Biology: Diversity of Life 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of BIO 111. Topics include: taxonomy and evolution of animals, plants, fungi, protists, bacteria, and viruses; animal behavior; ecology; population growth; and conservation biology.

Prerequisites: BIO 111 Ohio Transfer Module Approved

BIO 115 Human Genetics

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on human traits, genetic conditions, and inheritance. Topics include: DNA structure, patterns of inheritance, meiosis, karyotypes, genetic engineering, and societal implications of an individual's genetic identity.

Prerequisites: BIO 111 or BIO 131 (minimum grade C for either)

BIO 117 Human Body in Health and Disease 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Fundamentals of the structure and function of the human body. Topics include: anatomy, normal function contrasted with dysfunction, and common diseases of body systems including symptoms and treatments

Prerequisites: BIO 100 or BIO 111 or BIO 131 or BIO 151, or HS Biology within the last 5 years (minimum grade C for all), or BMT 161

BIO 127 Human Body in Health and Disease Laboratory 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A laboratory course that accompanies BIO 117. Laboratory activities include: exercises, slides, models, and animal organ dissections. Prerequisites: BIO 100 or BIO 111 or BIO 131 or BIO 151, or HS Biology within the last 5 years (minimum grade C for all), or BMT 161 Corequisites: BIO 117: Human Body in Health and Disease

BIO 131 Biology 1

5 Credits. 4 Lecture Hours. 3 Lab Hours.

A course on the chemistry of life. Topics include: cellular structure and function; characteristics of life; theory of evolution; understanding DNA and its role in heredity, regulation of biological systems, bioenergetics, and biochemical pathways; and current developments in biotechnology.

Prerequisites: BIO 111 (minimum grade C), or high school Biology within past 5 years (minimum grade C) Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

BIO 132 Biology 2

5 Credits. 4 Lecture Hours. 3 Lab Hours.

A continuation of BIO 131. Topics include: scientific theory, history of scientific discovery, evolutionary principles, form and function of living organisms, biological classification, behavior of organisms and their relationships to biological systems, ecological systems, applications of biology, and sustainability.

Prerequisites: BIO 131 (minimum grade C)

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

BIO 151 Anatomy and Physiology 1 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on the structure and function of the human body. Topics include: orientation to anatomy and physiology; cellular function; tissues; special senses; and integumentary, skeletal, muscular, and nervous systems.

Prerequisites: BIO 111, and CHE 100 or CHE 110 or CHE 115; or high school Biology and Chemistry within the past 5 years; or BIO 100 (minimum grade C for all)

Ohio Transfer Module Approved

BIO 152 Anatomy and Physiology 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of BIO 151. Topics include: endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems; metabolism; fluid and electrolyte balance; and human growth and development.

Prerequisites: BIO 151 (minimum grade C)

Ohio Transfer Module Approved

BIO 198 First Year Special Topics in Biology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Biology, which gives students opportunities to study information not currently covered in other courses. Grades issues are A, B, C, D, or F.

Prerequisites: None

BIO 199 First Year Independent Project in Biology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Biology that is completed by one or more students to meet specific eduational goals. Projects must have prior approval and supervision by Biology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

BIO 210 Cross Sectional Anatomy

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on sectional anatomy of major human structures including the head, neck, thorax, abdomen, pelvis and extremities; and organ relationships in the axial, coronal, and sagittal planes.

Prerequisites: BIO 152 (minimum grade C)

BIO 220 Microbiology

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on microbiology and infectious disease. Topics include: microbial taxonomy and identification, microbial cell structure, microbial genetics, metabolism, biotechnology, epidemiology, and immunology. Prerequisites: BIO 132 or BIO 151 (minimum grade C for either)

BIO 230 Pharmacology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on clinical drug categories and therapies. Topics include: pharmacokinetics; pharmacodynamics; drug classes and schedules; drug approval and regulation; modes of administration; and indications, mechanism of action, and adverse effects.

Prerequisites: BIO 152 (minimum grade C)

BIO 240 Pathophysiology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamental clinical concepts of disease processes. Topics include: terminology, clinical presentations, manifestations, and diagnostic and therapeutic activities.

Prerequisites: BIO 152 (minimum grade C) Ohio Transfer Assurance Guide Approved

BIO 250 Cell Biology

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on the structure and function of cells. Topics include: cell structure and organelles, membrane function, cell respiration and photosynthesis, intracellular transport, cell to cell communication, and cell division.

Prerequisites: BIO 132 and CHE 100 or CHE 110 (minimum grade C for all)

BIO 260 Genetics

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on mechanisms of heredity and genetics. Topics include: DNA and chromosome structure, transcription and gene regulation, replication and cell division, patterns of inheritance, genetic recombination, mutations and their repair, and genetics of cancer development and evolution.

Prerequisites: BIO 131 and CHE 100 or CHE 110 (minimum grade C for all)

BIO 270 Ecology

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on interrelationships between organisms and their natural environments. Topics include: ecology and evolution; population ecology, density, dispersion, and dispersal; metapopulations; competition and predation; community structure, succession, and nutrient cycling; and sustainability.

Prerequisites: BIO 132 or BIO 152, and CHE 100 or CHE 110 (minimum grade C for all)

BIO 275 Animal Behavior

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on the diversity of animal behaviors examined from mechanistic, ecological and evolutionary perspectives. Topics include: genetic, physiological, neural, and developmental bases of behavior; animal learning and social behavior; predator-prey interaction; and communication, reproduction, mating, and parental systems.

Prerequisites: BIO 132 or BIO 270, and CHE 100 or CHE 110 (minimum grade C for all)

BIO 298 Second Year Special Topics in Biology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Biology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

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BIO 299 Second Year Independent Project in Biology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Biology that is completed by one or more students to meet specific eduational goals. Projects must have prior approval and supervision by Biology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

BMT

Courses

BMT 161 Biomedical Instrumentation 1 4 Credits, 3 Lecture Hours, 3 Lab Hours,

A course on the role of the biomedical engineering technician, and fundamentals of systems and device maintenance. Topics include: hospital organization and regulations, professional certifications, safety, medical device maintenance, and technology management. Prerequisites: EET 131

BMT 191 Part-Time Cooperative Education 1: Biomedical **Equipment and Information Systems Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

BMT 192 Part-Time Cooperative Education 2: Biomedical **Equipment and Information Systems Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BMT 191

BMT 193 Part-Time Cooperative Education 3: Biomedical **Equipment and Information Systems Technology** 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BMT 192

BMT 194 Part-Time Cooperative Education 4: Biomedical **Equipment and Information Systems Technology** 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BMT 193

BMT 195 Part-Time Cooperative Education 5: Biomedical **Equipment and Information Systems Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BMT 194

BMT 196 Part-Time Cooperative Education 6: Biomedical **Equipment and Information Systems Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BMT 195

BMT 198 First Year Special Topics in Biomedical Equipment and Information Systems Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Biomedical Equipment and Information Systems Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

BMT 199 First Year Independent Project in Biomedical Equipment and Information Systems Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Biomedical Equipment and Information Systems Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Biomedical Equipment and Information Systems Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Instructor Approval

BMT 262 Biomedical Instrumentation 2 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of BMT 161. Topics include: patient and surgical monitoring, complex medical devices, imaging equipment, medical technology management, equipment malfunction, and globalization. Prerequisites: BMT 161 and EET 122 and EET 132 and ESET 251

BMT 291 Full-Time Cooperative Education 1: Biomedical **Equipment and Information Systems Technology**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

BMT 292 Full-Time Cooperative Education 2: Biomedical **Equipment and Information Systems Technology** 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BMT 291

BMT 293 Full-Time Cooperative Education 3: Biomedical Equipment and Information Systems Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BMT 292

BMT 294 Internship 1: Biomedical Equipment and Information Systems Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BMT 151 and CIT 190

BMT 295 Internship 2: Biomedical Equipment and Information Systems Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BMT 294

BMT 298 Second Year Special Topics in Biomedical Equipment and Information Systems Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Biomedical Equipment and Information Systems Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

BMT 299 Second Year Independent Project in Biomedical Equipment and Information Systems Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Biomedical Equipment and Information Systems Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Biomedical Equipment and Information Systems Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

BPA

Courses

BPA 130 Business Systems Analysis and Design 3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introductory course on business systems analysis within the framework of the system development life cycle. Topics include: business case analysis, requirement gathering, requirement modeling, enterprise modeling, and development strategies.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

BPA 191 Part-Time Cooperative Education 1: Business Programming and Systems Analysis

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

BPA 192 Part-Time Cooperative Education 2: Business Programming and Systems Analysis

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BPA 191

BPA 193 Part-Time Cooperative Education 3: Business Programming and Systems Analysis

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 192

BPA 194 Part-Time Cooperative Education 4: Business Programming and Systems Analysis

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 193

BPA 195 Part-Time Cooperative Education 5: Business Programming and Systems Analysis

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 194

BPA 196 Part-Time Cooperative Education 6: Business Programming and Systems Analysis

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 195

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BPA 198 First Year Special Topics in Business Programming and **Systems Analysis**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Business Programming and Analysis, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Instructor Approval

BPA 199 First Year Independent Project in Business Programming and Systems Analysis

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Business Programming and Analysis that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Business Programming and Analysis faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

BPA 290 Business Programming and Systems Analysis Capstone 4 Credits. 3 Lecture Hours. 3 Lab Hours.

Students participate in a team project that demonstrates mastery of skills gained throughout their degree studies. Topics include: analyzing requirements, determining an IT solution, and implementing an IT solution.

Prerequisites: IT 102 and IT 111 and IT 161

BPA 291 Full-Time Cooperative Education 1: Business Programming and Systems Analysis

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

BPA 292 Full-Time Cooperative Education 2: Business Programming and Systems Analysis

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 291

BPA 293 Full-Time Cooperative Education 3: Business Programming and Systems Analysis

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 292

BPA 294 Internship 1: Business Programming and Systems **Analysis**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

BPA 295 Internship 2: Business Programming and Systems **Analysis**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BPA 294

BPA 298 Second Year Special Topics in Business Programming and Systems Analysis

1-9 Credits, 0 Lecture Hour, 0 Lab Hour,

A course on selected topics related to Business Programming and Analysis, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Instructor Approval

BPA 299 Second Year Independent Project in Business Programming and Systems Analysis

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Business Programming and Analysis that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Business Programming and Analysis faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

BPI

Courses

BPI 110 BPI Building Analyst Professional 2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course leading to certification as a Building Performance Institute (BPI) Building Analyst Professional who is qualified to conduct wholehouse energy audits. Topics include: BPI standards, analyzing building systems, building science, and measurement and verification of building performance.

Prerequisites: None

BPI 115 BPI Envelope Professional 2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course leading to certification as a Building Performance Institute (BPI) Building Analyst Professional who is qualified to conduct wholehouse energy audits. Topics include: BPI standards, analyzing building systems, building science, and measurement and verification of building performance.

Prerequisites: None

BREW

Courses

BREW 100 Introduction to Craft Beer 3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to craft beers and brewing for those not pursuing the Brewing Science associate's degree. Topics include: beer and brewing history, production, characteristics, taxonomy, and evaluation.

Prerequisites: None

BREW 105 Beverage Tour and Tasting Management 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on developing, marketing, and managing the craft beverage tour experience. Topics include: providing customer service, implementing special events, and operating a tasting room.

Prerequisites: BREW 100

BREW 110 Brewing Sanitation and Safety 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on sanitation and safety procedures applicable to brewing products, facilities, and equipment. Topics include: selecting, handling, and storing the chemicals required for sanitation control within the brewing process.

Prerequisites: Admitted to the BREW degree program

BREW 120 Brewing Technology and Calculations 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on the equipment and mathematical calculations used in craft brewing production. Topics include: using brewing equipment and other technology related to scheduling/record keeping, developing recipes, and calculating use of alcohol and other ingredients.

Prerequisites: Admitted to the BREW degree program, and AFM 094 or MAT 105 or appropriate placement test score

BREW 130 Brewing Production

4 Credits. 2 Lecture Hours. 4 Lab Hours.

A course on basic methodologies used in the production of beers. Topics include: recipe development, basic sanitation techniques,

fermentation management, and storage.
Prerequisites: BREW 110 and BREW 120
Corequisites: BREW 140: Brewing Ingredients

BREW 140 Brewing Ingredients

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on how ingredients used in the beer-making process affect the style and quality of beer. Topics include: selecting and growing barley, varieties of malting, growing hops, and the effect of hops in development of beer flavor and aroma.

Prerequisites: BREW 110 and BREW 120 Corequisites: BREW 130: Brewing Production

BREW 150 Applied Brewing Microbiology 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on microbiology concepts and laboratory practices applicable to the brewing industry. Topics include: yeast biology, fermentation, microorganisms in brewing, and sanitation.

Prerequisites: BREW 110 and CHE 110

BREW 160 Sensory Evaluation of Beer 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the visual, olfactory and gustatory parameters used in the evaluation of beer. Topics include: aromas, finish, flavor/taste interaction, and factors affecting product quality; as well as descriptive analysis/model systems, judging systems, and set-up and operation of beverage competitions.

Prerequisites: Admitted to the BREW degree program or BREWC certificate program, or instructor consent

Instructor Consent Required

BREW 191 Part-time Cooperative Education 1: Brewing Science 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

BREW 192 Part-Time Cooperative Education 2: Brewing Science 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BREW 191

BREW 193 Part-Time Cooperative Education 3: Brewing Science 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BREW 192

BREW 194 Part-time Cooperative Education 4: Brewing Science 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BREW 193

BREW 195 Part-Time Cooperative Education 5: Brewing Science 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BREW 194

BREW 196 Part-Time Cooperative Education 6: Brewing Science 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BREW 195

BREW 198 First Year Special Topics in Brewing Science 1-9 Credits. 9-Jan Lecture Hour. 0 Lab Hour.

A course on selected topics related to Brewing Science, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor consent Instructor Consent Required

BREW 199 First Year Independent Project in Brewing Science 1-9 Credits. 9-Jan Lecture Hour. 0 Lab Hour.

A project related to Brewing Science that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by the Brewing Science program chair.

Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor consent Instructor Consent Required

BREW 210 Beverage Marketing and Sales 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on marketing and selling beer and other brewed, fermented, or distilled products. Topics include: industry/consumer trends; and economic, legal, and social considerations that affect beverage marketing and sales, including branding, pricing, promotion, and distribution.

Prerequisites: BREW 160

BREW 220 Brewing Packaging, Materials, and Quality Control 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on practices associated with packaging beer, including canning, bottling, box presentations, and kegging. Topics include: expanding product shelf life; selecting containers; controlling temperature and light; and evaluating options for labeling, capping, and sealing

Prerequisites: BREW 140

BREW 230 Advanced Brewing Production 4 Credits. 2 Lecture Hours. 4 Lab Hours.

A course on processes and equipment used in an on-site brewery and fermentation facility. Topics include: analyzing and monitoring fermentation, producing specialty beers, quality control, sustainable brewing practices, and operating and managing brewing facilities.

Prerequisites: BREW 140

BREW 240 Legal Issues in Brewing and Beverages 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the legal and regulatory environment applicable to the brewing, distillation, and fermentation industries. Topics include: social and ethical responsibilities; and state/federal regulations including licensing, taxation, labeling, record keeping, permits, inspections, and interstate/international commerce.

Prerequisites: BREW 160

BREW 291 Full-Time Cooperative Education 1: Brewing Science 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BREW 140

BREW 292 Full-Time Cooperative Education 2: Brewing Science 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit.

Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BREW 291

BREW 293 Full-Time Cooperative Education 3: Brewing Science 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BREW 292

BREW 298 Second Year Special Topics in Brewing Science 1-9 Credits. 9-Jan Lecture Hour. 0 Lab Hour.

A course on selected topics related to Brewing Science, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor consent Instructor Consent Required

BREW 299 Second Year Independent Project in Brewing Science 1-9 Credits. 9-Jan Lecture Hour. 0 Lab Hour.

A project related to Brewing Science that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by the Brewing Science program chair. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor consent Instructor Consent Required

BSC

Courses

BSC 100 Survey of Bioscience and Biotechnology 2 Credits. 2 Lecture Hours. 0 Lab Hour.

An introductory course on the disciplines and scope of bioscience and biotechnology. Topics include: applications of bioscience and biotechnology, medical advances, bioethics, current developments, and career opportunities.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

BSC 108 Bioscience Skills and Regulations 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on bioscience techniques and workplace regulations required for safe laboratories and related work environments. Topics include: documentation, calculations, aseptic techniques, safety, standard operating procedures (SOP), FDA regulations, and good manufacturing practices (GMP).

Prerequisites: AFL 085 and AFM 092 or appropriate placement test scores, and high school Biology within the past 5 years (minimum grade C for all)

BSC 115 Bioscience Laboratory Methods 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on techniques used in bioscience laboratories. Topics include: microscopy, aseptic technique, growth and identification of microbes, spectroscopy, genetic transformation, DNA isolation, and troubleshooting experiments.

Prerequisites: BSC 108, and BIO 111 or BIO 131, and CHE 100 or high school Chemistry within the past 7 years, and ENG 101 (minimum grade C for all)

BSC 120 Cell Culture

2 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on skills and techniques necessary to perform cell culture. Topics include: cell counts, biosafety, plant culture, yeast culture, mammalian cell culture, and fermentation techniques.

Prerequisites: BSC 115

BSC 150 Scientific Literacy for Bioscience 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on reading, writing, and speaking skills for science professionals. Topics include: style and structure for scientific journal articles, the peer review process, and oral presentations of scientific information.

Prerequisites: None

BSC 160 Quality and Compliance in Biomanufacturing 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on quality assurance elements in biomanufacturing industries. Topics include: current Good Manufacturing Practices (cGMPs), lean manufacturing and Six Sigma, root cause analysis, validation and calibration, and regulatory compliance. Students must attend field trips to local biomanufacturing companies.

Prerequisites: BSC 108

BSC 191 Part-Time Cooperative Education 1: Bioscience 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures in order to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BIO 132 and (BSC 205 or BSC 210) (minimum grade C for all)

BSC 198 First Year Special Topics in Bioscience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Bioscience, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

BSC 199 First Year Independent Project in Bioscience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Bioscience that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Bioscience faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

BSC 205 Molecular Genetics Laboratory 5 Credits, 2 Lecture Hours, 6 Lab Hours

5 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on molecular genetics techniques. Topics include: DNA and RNA isolation and purification, constructing screening libraries, electrophoresis, vector construction, Southern blot, PCR, DNA sequencing, and microarrays.

Prerequisites: BSC 115, and MAT 121 or MAT 151 (minimum grade C for all)

Instructor Consent Required

BSC 210 Protein Purification and Analysis 5 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on isolation, purification, and analysis of proteins from cells. Topics include: chromatography, electrophoresis, Western blot, enzyme assays, proteomics, ELISA and other immunochemistry methods for detecting proteins.

Prerequisites: BSC 115, and MAT 121 or MAT 151 (minimum grade C for all)

BSC 230 Introduction to Bioinformatics

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on computer applications, statistics, and genetics used in computational biology and bioinformatics. Topics include: the Human Genome and Human Proteome projects, multiple sequence analysis, genetic conditions and trends, and use of databases such as BLAST, FASTA, and Entrez.

Prerequisites: BIO 111 or BIO 131

BSC 280 Bioscience Capstone Project 2 Credits. 0 Lecture Hour. 4 Lab Hours.

Students design and perform a project under the supervision of a Bioscience instructor. Topics include: planning a budget, and documenting project results.

Prerequisites: BIO 132, and (BSC 205 or BSC 210)

BSC 291 Full-Time Cooperative Education 1: Bioscience 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BIO 132 and (BSC 205 or BSC 210) (minimum grade C for all)

BSC 294 Internship 1: Bioscience

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issues are Satisfactory or Unsatisfactory.

Prerequisites: BIO 132, BSC 205, or BSC 210 (minimum grade C for all)

BSC 298 Second Year Special Topics in Bioscience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Biology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

BSC 299 Second Year Independent Project in Bioscience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Bioscience that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Bioscience faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

BUS

Courses

BUS 100 Business Career Exploration Seminar 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using research and personal reflection to develop a strong foundation for selecting an academic program/major and planning a career related to Business. Topics include: analyzing interests, abilities, and values; reviewing academic and personal requirements for related programs/majors; and examining career outcomes including salary, job availability, advancement opportunities, and other factors. Prerequisites: None

BUS 150 Automotive Services ATS: Advanced Standing 30 Credits. 30 Lecture Hours. 0 Lab Hour.

Students complete apprenticeship education, industry training programs, or work experience related to skills used in the automotive services industry.

Prerequisites: Program Chair consent Instructor Consent Required

BUS 190 Professional Practices

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course that prepares students in Business Technologies programs for a successful cooperative education experience. Topics include: exploring career options, preparing a resume, developing interviewing skills, building a professional presence, and understanding professional ethics. Students must earn a grade of C or higher to pass this course.

Prerequisites: AFL 085 or appropriate placement test score

BUS 191 Part-Time Cooperative Education 1: Business 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BUS 190 (minimum grade C)

BUS 192 Part-Time Cooperative Education 2: Business 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 191

BUS 193 Part-Time Cooperative Education 3: Business 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BUS 192

BUS 194 Part-Time Cooperative Education 4: Business 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 193

BUS 195 Part-Time Cooperative Education 5: Business 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BUS 194

BUS 196 Part-Time Cooperative Education 6: Business 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 195

BUS 198 First Year Special Topics in Business 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Business, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

BUS 199 First Year Independent Project in Business 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Business that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Business faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

BUS 280 Cooperative Education Seminar 1 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Students participate in activities that enhance employment options in a chosen career field, as an alternative to traditional cooperative education experience. A minimum grade of C is required to pass the course.

Prerequisites: Co-op coordinator consent Instructor Consent Required

BUS 285 Cooperative Education Seminar 2

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Students participate in activities that enhance employment options in a chosen career field, as an alternative to traditional cooperative education experience. A minimum grade of C is required to pass the

Prerequisites: Co-op coordinator consent Instructor Consent Required

BUS 291 Full-Time Cooperative Education 1: Business 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

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BUS 292 Full-Time Cooperative Education 2: Business 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 291

BUS 293 Full-Time Cooperative Education 3: Business 2 Credits. 2 Lecture Hours. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 292

BUS 298 Second Year Special Topics in Business 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Business, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

BUS 299 Second Year Independent Project in Business 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Business that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Business faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CET

Courses

CET 100 Introduction to Civil Engineering Technology 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on foundation concepts in civil engineering technology. Topics include: CET program and curriculum, career preparation, licensing, ethics, diversity, and OSHA. Students use Microsoft Word, Excel, and Powerpoint to complete assignments.

Prerequisites: None

CET 105 Introduction to Surveying 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on foundation concepts of land surveying and site planning. Topics include: angle, distance, and elevation measurement; contours; and mapping and site planning fundamentals. Students complete outdoor field exercises and manual drafting lab exercises.

Prerequisites: MAT 121 or appropriate placement test score

Ohio Transfer Assurance Guide Approved

CET 107 Construction Health and Safety 4 Credits. 4 Lecture Hours. 0 Lab Hour.

An introduction to construction safety. Topics include: risk management, safety hazards, the Code of Federal Regulations, and OSHA Construction Industry Standards outlined in Federal Code 29 CFR Part 1926. Students who complete the course successfully earn the OSHA 30-hour certificate.

Prerequisites: None

CET 110 Advanced Surveying and Construction Layout 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course in land surveying and construction layout. Topics include: traverse calculations, coordinate geometry, and field construction layout with methods of providing line and grade for varied projects. Students complete outdoor field exercises and computer lab exercises. Prerequisites: CET 105

CET 115 Architectural Drafting and Computer Aided Design 4 Credits. 2 Lecture Hours. 4 Lab Hours.

A course on applying architectural drafting techniques and computer aided design concepts. Topics include: building codes, building materials, and fundamentals of CAD software. Students prepare residential working drawings.

Prerequisites: None

CET 117 Construction Risk Management and Insurance 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on insurance for the construction management process. Topics include: financial risk planning, risk management, insurance markets, property insurance, contractual risks and transfer, forms of liability insurance (commercial, employers, environmental, management, and professional), and workers' compensation. Prerequisites: None

CET 120 Advanced Computer Aided Design: Revit Architecture 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on CAD techniques that apply building information modeling using Revit Architecture. Topics include: layouts, dimensioning, blocks, and hatching.

Prerequisites: CET 115

CET 125 Statics and Strength of Materials (CET) 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on applying physical principles to solve problems of equilibrium and behavior in civil engineering structures. Topics include: force resultants, equilibrium, truss analysis, direct stress, bending stress, beam behavior, and combined stress.

Prerequisites: MAT 121 or appropriate placement test score

CET 127 Environmental and Legal Issues in Construction 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on environmental and legal issues affecting construction safety. Topics include: stormwater pollution prevention plans, asbestos abatement, disturbance and abatement of lead-containing materials, silica exposure, EPA regulations, multi-employer worksite rules, intentional torts, safety violations, and union contracts.

Prerequisites: None

CET 130 Building Codes and Materials 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on building code requirements and their applications to designing and constructing building projects. Topics include: Ohio building, mechanical, electrical, and plumbing codes; and building materials used in construction such as steel, wood, masonry, and concrete.

Prerequisites: CET 115

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CET 133 Home Inspection - American Society of Home Inspectors 5 Credits. 2 Lecture Hours. 6 Lab Hours.

A course that meets requirements for the American Society of Home Inspectors (ASHI)120-hour home inspection course. Topics include: standards and reports, exterior cladding, exterior structures, roofing and foundations, interiors, electrical systems, heating, air conditioning, and plumbing. Students participate in field inspection lab activity and take a certification exam. A comprehensive final score of 70% is required to pass the course.

Prerequisites: None

CET 135 Construction Estimating 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on quantifying various components of a commercial project using a complete set of working drawings and specifications. Topics include: blueprint reading, specification analysis, construction methods and materials, and proper estimating communication practices. Prerequisites: MAT 120, or appropriate placement test score

CET 137 Construction Safety Plan Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on developing construction safety plans. Topics include: essential elements of a safety program; best practices, legal, and regulatory requirements related to safety planning; substance abuse programs; accident investigations; contractor management; and crisis management and planning.

Prerequisites: None

CET 147 Safety Training Workshops 1 Credit. 1 Lecture Hour. 0 Lab Hour.

Students participate in construction training workshops that provide fundamental instruction in safety methods and practices. Workshops must be approved by the program chair.

Prerequisites: Program Chair consent

CET 150 Building Technology Studies: Advanced Standing 1-30 Credits. 0 Lecture Hour. 0 Lab Hour.

Students complete courses or programs that develop expertise in skills related to the building trades.

Prerequisites: Program Chair consent

Instructor Consent Required

CET 191 Part-Time Cooperative Education 1: Civil Engineering **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

CET 192 Part-Time Cooperative Education 2: Civil Engineering **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 191

CET 193 Part-Time Cooperative Education 3: Civil Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 192

CET 194 Part-Time Cooperative Education 4: Civil Engineering **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CET 193

CET 195 Part-Time Cooperative Education 5: Civil Engineering **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CET 194

CET 196 Part-Time Cooperative Education 6: Civil Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 195

CET 198 First Year Special Topics in Civil Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Civil Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Instructor Approval

CET 199 First Year Independent Project in Civil Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Civil Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Civil Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor consent

CET 200 Structural Design

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on methods for evaluation and design of structural steel and reinforced concrete members, using AISC and ACI requirements. Topics include: design methodologies focused on bending moment behavior, tension and compression behavior, shear behavior, and connections; and common field testing techniques for concrete. Prerequisites: CET 125

Cincinnati State

CET 205 Architectural Design and 3D Modeling: Revit Architecture

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on architectural details and information required in a complete set of professional working drawings for an office or commercial building. Topics include: using CAD design software and Revit Architecture.

Prerequisites: CET 120

CET 210 Lighting and Electrical Systems Design 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental concepts for lighting and electrical design in commercial buildings. Topics include: creating sets of drawings in AutoCAD and Revit Architecture, and using the National Electric Code. Prerequisites: CET 120

CET 211 Advanced Revit 1

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on understanding concepts of mechanical systems and preparing details of mechanical systems layouts using Revit software.

Prerequisites: CET 120 Corequisites: CET 205

CET 212 Advanced Revit 2

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of CET 211. Topics include: understanding concepts of electrical, plumbing, and fire protection systems; and preparing details of electrical, lighting, plumbing, and fire protection systems layouts using Revit software.

Prerequisites: CET 211

CET 215 Mechanical and HVAC Systems Design 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental concepts of mechanical and HVAC design for commercial buildings. Topics include: creating sets of design drawings using AutoCAD and Revit, and Ohio mechanical and plumbing codes.

Prerequisites: CET 120

CET 220 3D Modeling: Revit MEP and Revit Structure 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on applying design concepts and preparing details of mechanical and electrical systems, plumbing, and structure in buildings using Revit MEP and Revit Structure software.

Prerequisites: CET 205

CET 225 Building Construction

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on how buildings and structures are assembled. Topics include: methods and materials for residential, commercial, industrial, and highway construction including wood frame, masonry, preengineered metal, tilt-up, and high-rise construction; building codes; zoning regulations; and footing design.

Prerequisites: None

Ohio Transfer Assurance Guide Approved

Ohio Career-Technical Assurance Guide Approved

CET 230 Construction Management

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course that examines current concerns in construction management. Topics include: project delivery systems, contract types, and using Web-based software for daily project management.

Prerequisites: CET 135

CET 235 Construction Scheduling

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on preparing precedence diagram CPM schedules and calculating the critical path, including start-to-start and finish-to-finish relationship types with lag. Topics include: using scheduling software, fast-tracking, reverse phase scheduling, and revising and updating schedules.

Prerequisites: CET 135

CET 240 Cost Engineering

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on how budgets evolve as projects move from pre-design through construction. Topics include: types of estimates employed at each phase, formulating unit prices, time value of money and true profit, cash flow, cost indices, and using estimating software.

Prerequisites: CET 135

CET 245 Building Information Models for Construction 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on using building modeling software for construction management tasks such as estimating, trade coordination, and scheduling. Topics include: parameter creation, quantity takeoff, estimation, interference checking, and timeline visualization.

Prerequisites: CET 120

CET 250 Route Location and Design

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on highway design criteria and standards. Topics include: design and layout of horizontal curves, verticals, and spirals; superelevation use; typical sections; and boundary, area, and right-of-way determination. Students complete outdoor field exercises and computer lab exercises.

Prerequisites: CET 110

CET 251 Elements of Land Surveying 1

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on fundamental concepts and techniques of land boundary surveying. Topics include: records research, state minimum standards, monumentation of corners, and simple plats and legal descriptions. Students must complete field exercises.

Prerequisites: CET 110

CET 252 Elements of Land Surveying 2 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of CET 251. Topics include: sequential and simultaneous boundaries, riparian and littoral boundaries, public land surveys, easements, and legal principles of property relating to surveyors.

Prerequisites: CET 251

CET 255 Land Information Modeling

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques of land modeling. Topics include: mapping, using geographic information system software, advanced digital terrain modeling, 3D laser scanning, LIDAR, high-definition surveying, and 3D site modeling for visualization and machine-control projects.

Prerequisites: CET 110

CET 260 Control Surveying

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course in concepts and techniques of control surveying. Topics include: basic geodesy, state plane coordinate concepts and calculations, establishing horizontal and vertical control, GPS positioning, and network adjustment. Students complete outdoor field exercises and computer lab exercises.

Prerequisites: CET 110

CET 265 Subdivision Design and Drainage Control 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on applying land surveying and civil engineering design principles to land development projects. Topics include: subdivision regulations, zoning regulations, lot layout, street layout, utility design, drainage, and site grading. Students create a set of subdivision drawings to meet local standards.

Prerequisites: CET 255

CET 266 Surveying History in Ohio, Kentucky, and Indiana 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on the history of surveying in Ohio, Indiana, and Kentucky, including the original surveys in these states.

Prerequisites: Admitted to the Advanced Surveying Certificate (ASC) or Land Surveying Certificate (LSC), or Program Chair approval

CET 267 Surveying Laws and Ethics

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on surveying law and professional ethics in Ohio, Indiana, and Kentucky, including legislation and regulations affecting land surveyors in these states.

Prerequisites: Admitted to the Advanced Surveying Certificate (ASC) or Land Surveying Certificate (LSC), or Program Chair approval

CET 270 OSHA 30 for Construction

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for workers and employers on the recognition, avoidance, abatement, and prevention of safety and health hazards in workplaces in the construction industry. Topics include: workers' rights, employer responsibilities, how to file a complaint, and other information required to receive OSHA 30 certification by the U.S. Department of Labor's Occupational Safety and Health Administration.

Prerequisites: None

CET 277 Survey Calculations and Statistics 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on survey calculations employing statistical concepts. Topics include: descriptive and inferential statistics, advanced coordinate geometry methods, least squares adjustment, and error theory.

Prerequisites: Admitted to the Advanced Surveying Certificate (ASC) or Land Surveying Certificate (LSC), or Program Chair approval

CET 280 Civil Engineering Technology Architectural Capstone 4 Credits. 2 Lecture Hours. 6 Lab Hours.

Students design a one-story commercial building with complete, integrated building systems for architectural, mechanical, and electrical systems; apply multiple appropriate codes; and create sets of drawings using AutoCAD and Revit software as appropriate.

Prerequisites: CET 205 and CET 210 and CET 215

CET 285 Civil Engineering Technology Construction Management Capstone

3 Credits. 2 Lecture Hours. 3 Lab Hours.

Students respond to a request for construction management services and complete a project that demonstrates integrated competencies in estimating, scheduling, communicating, and teamwork.

Prerequisites: CET 230 and CET 235

CET 287 Geospatial Surveying

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on surveying using geospatial methods. Topics include: satellite positioning, geographic information systems, remote sensing, and laser scanning.

Prerequisites: Admitted to the Advanced Surveying Certificate (ASC) or Land Surveying Certificate (LSC), or Program Chair approval

CET 290 Civil Engineering Technology Surveying Capstone 3 Credits. 1 Lecture Hour. 6 Lab Hours.

Students complete a project that demonstrates integrated competencies in surveying and mapping, including data collection, field work, computer laboratory work, and use of conventional and GPS equipment.

Prerequisites: CET 251

CET 291 Full-Time Cooperative Education 1: Civil Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

CET 292 Full-Time Cooperative Education 2: Civil Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 291

CET 293 Full-Time Cooperative Education 3: Civil Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 292

CET 294 Internship 1: Civil Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 100

CET 295 Internship 2: Civil Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CET 294

CET 298 Second Year Special Topics in Civil Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Civil Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

CET 299 Second Year Independent Project in Civil Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Civil Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Civil Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

CHE

Courses

CHE 100 Basic Chemistry

3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introductory course on concepts in chemistry. Topics include: dimensional analysis and problem solving, physical and chemical properties of matter, organization of the periodic table, writing and manipulating formulas, stoichiometry, gas laws, equilibrium, and acids and bases.

Prerequisites: AFL 085 and AFM 092 (minimum grade C for both) or appropriate placement test scores

CHE 105 Chemistry for Consumers

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course for non-science majors on the relevance of basic principles of chemistry to daily life. Topics include: laboratory/data analysis, matter classification, the periodic table, compound formation, chemical reactions, synthesis/analysis of consumer products, and the global impact of consumerism.

Prerequisites: AFL 085 and AFM 092 (minimum grade C for both), or appropriate placement test scores

Ohio Transfer Module Approved

CHE 110 Fundamentals of Chemistry 4 Credits, 3 Lecture Hours, 3 Lab Hours,

A college-level general chemistry course for non-majors. Topics include: atomic structure, bonding, chemical reactions, properties and states of matter, acids and bases, and equilibrium.

Prerequisites: AFL 085, and AFM 094 or MAT 105 or MAT 120 (minimum grade C for all), or appropriate placement test scores Ohio Transfer Module Approved

CHE 111 Bio-Organic Chemistry 4 Credits. 3 Lecture Hours. 3 Lab Hours.

Study of foundational concepts of organic chemistry and biochemistry. Topics include: types of organic compounds and representative reactions, and biochemical compounds and reactions.

Prerequisites: CHE 110 (minimum grade C) or CHE 121 and CHE 131 (minimum grade C for both)

Ohio Transfer Module Approved

CHE 115 General, Organic, and Biological Chemistry 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A survey of basic general, organic, and biological chemistry. Topics include: dimensional analysis, problem-solving strategies, atomic structure, chemical bonding, reactions, acid-base chemistry, attractive forces, functional groups, structure/reactions of major macromolecules, and metabolism.

Prerequisites: AFL 085, and AFM 094 or MAT 105 or MAT 120 (minimum grade C for all), or appropriate placement test scores Ohio Transfer Module Approved

CHE 121 General Chemistry 1

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A general chemistry course for science majors. Topics include: measurement systems; composition, properties, and reactions of elements and compounds; states of matter; atomic structure and bonding; and solution chemistry.

Prerequisites: High School Chemistry (within three years, minimum grade B) or CHE 100 or CHE 110 (minimum grade C for both) and MAT 121 or AFM 097 (minimum grade C for both), and AFL 085 (minimum grade C), or appropriate placement test scores Corequisites: CHE 131

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Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 122 General Chemistry 2

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of CHE 121. Topics include: kinetics, chemical equilibrium, acid-base chemistry, acid-base and solubility equilibrium, thermodynamics, electrochemistry, and chemistry of transition elements

Prerequisites: CHE 121 and CHE 131 (minimum grade C for both) and MAT 125 or MAT 151 or MAT 153 (minimum grade C for all)

Corequisites: Take CHE-132 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 131 General Chemistry 1 Lab 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A laboratory course that accompanies CHE 121.

Prerequisites: High School Chemistry (within 3 years, minimum grade B), or CHE 100 or CHE 110 (minimum grade C for both), and MAT 121 or AFM 097 (minimum grade C for both), and AFL 085 (minimum grade C), or appropriate placement test scores

Corequisites: CHE 121

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 132 General Chemistry 2 Lab 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A laboratory course that accompanies CHE 122.

Prerequisites: CHE 121 and CHE 131 (minimum grade C for both)

Corequisites: CHE 122

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 198 First Year Special Topics in Chemistry 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Chemistry, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CHE 199 First Year Independent Project in Chemistry 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Chemistry that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Chemistry faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CHE 201 Organic Chemistry 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

An organic chemistry course for students preparing for science-related employment or additional science education. Topics include: principles of carbon chemistry including bonding, structure, mechanisms, properties, reactions, synthesis, acids, and bases.

Prerequisites: CHE 122 and CHE 132 (minimum grade C for both)

Corequisites: Take CHE-211 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 202 Organic Chemistry 2 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of CHE 201. Topics include: mass spectrometry; infrared, ultraviolet/visible, and NMR spectroscopies; aromaticity; chemistry of benzene, carboxylic acids, amines, aldehydes, and ketones; and oxidation and reduction.

Prerequisites: CHE 201 and CHE 211 (minimum grade C for both)

Corequisites: Take CHE-212 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 211 Organic Chemistry 1 Lab 2 Credits. 0 Lecture Hour. 4 Lab Hours.

A laboratory course that accompanies CHE 201. Laboratory experiences include: general organic laboratory techniques; isolation, purification, and identification of organic compounds; simple synthesis; and determination of unknowns.

Prerequisites: CHE 122 and CHE 132 (minimum grade C for both)

Corequisites: Take CHE-201 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 212 Organic Chemistry 2 Lab 2 Credits. 0 Lecture Hour. 4 Lab Hours.

A laboratory course that accompanies CHE 202. Laboratory experiences include: simple, complex, and multistep synthesis; and isolation, purification, analysis, and identification of organic compounds.

Prerequisites: CHE 201 and CHE 211 (minimum grade C for both)

Corequisites: Take CHE-202 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

CHE 298 Second Year Special Topics in Chemistry 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Chemistry, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CHE 299 Second Year Independent Project in Chemistry 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Chemistry that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Chemistry faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CHW

Courses

CHW 100 Community Health Worker Training 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on the community health worker's role, skills, and responsibilities, using concepts and curriculum requirements defined by the Ohio Board of Nursing Community Health Worker (CHW) Program. Topics include: health data collection, basic anatomy and physiology, basic medical terminology, health education, client communication, confidentiality, community advocacy and referral, and documentation and reporting. Students who complete CHW 100 and CHW 180 successfully may apply for professional certification as a CHW.

Prerequisites: None

CHW 180 Community Health Worker Practicum 3 Credits. 1 Lecture Hour. 8 Lab Hours.

Students complete 130 hours of clinical practice in a community agency or community health setting, performing functions of the community health worker under supervision of faculty and agency site supervisor, and attend a weekly on-campus seminar. Students who complete CHW 100 and CHW 180 successfully may apply for professional certification as a CHW.

Prerequisites: CHW 100, MCH 106 (minimum grade C for both) Instructor Consent Required

CHW 198 First Year Special Topics in Community Health Worker 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Community Health Worker, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

CHW 199 First Year Independent Project in Community Health Worker

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Community Health Worker that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Community Health Worker faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CHW 298 Second Year Special Topics in Community Health Worker

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to (XXX), which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

CHW 299 Second Year Independent Project in Community Health Worker

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Community Health Worker that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Community Health Worker faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

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CIT

Courses

CIT 100 Introduction to Engineering and Engineering Technologies

2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course that prepares students for success in Engineering fields and Engineering Technologies fields including Biomedical, Civil, Environmental, Electrical, Industrial, and Mechanical. Topics include: investigating academic and career pathways; and building skills in measurement, data collection and graphing, problem solving, research, and basic computation.

Prerequisites: AFM 092 or appropriate placement test score

CIT 105 OSHA 10 General Industry Safety 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A review of OSHA requirements governing electrical safe work practices at manufacturing and service facilities. Topics include: requirements outlined in OSHA 29 CFR Part 1910 and NFPA Standard 70E. Students who complete the course successfully receive OSHA 10 certification.

Prerequisites: None

CIT 110 Introduction to Information Technologies 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course that prepares students for success in Information Technology fields. Topics include: investigating career pathways; and building skills in problem solving, research, basic computation, and other foundational concepts.

Prerequisites: None

CIT 120 Introductory Mathematics for Engineering Applications 5 Credits. 4 Lecture Hours. 2 Lab Hours.

A course on math used within the context of engineering applications. Topics include: algebraic manipulations of engineering equations, trigonometry, vectors and complex numbers, sinusoids, systems of equations, differentiation, integration, and differential equations. Prerequisites: AFL 085 and MAT 126 or MAT 152 or MAT 153 or appropriate placement test score

CIT 130 Engineering Programming with MATLAB 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on foundation skills in computer programming, using the MATLAB language and environment, for students in engineering technologies majors who have no programming experience. Topics include: variables, arrays, conditional statements, loops, functions, plots, and data acquisition and analysis.

Prerequisites: MAT 125 or appropriate placement test score

CIT 150 Applied Technology Studies: Advanced Sta 1-27 Credits. 27-Jan Lecture Hour. 0 Lab Hour.

Students complete courses or training programs or earn certifications that develop expertise in engineering technologies fields, and may receive up to 27 credit hours for these programs/certifications.

Prerequisites: Program Chair consent Instructor Consent Required

CIT 190 Career Preparation: Engineering and Information Technologies

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on career planning and exploration for students in Engineering Technologies and Information Technologies fields. Topics include: self assessment, career research, resume development, interview skills, job search strategies, and cooperative education policies and procedures.

Prerequisites: AFL 085 and MAT 120, or appropriate placement test score

CMT

Courses

CMT 111 Chemical Technology 1

1 Credit. 0 Lecture Hour. 3 Lab Hours.

A course on fundamental concepts and techniques in chemical technology. Topics include: the chemical technology major at Cincinnati State, career development, professional communication, chemical technicians' roles in industry, using Microsoft Office Suite, industrial/laboratory safety and hygiene, and laboratory statistics. Prerequisites: None

CMT 112 Chemical Technology 2 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A continuation of CMT 111. Topics include: maintenance, calibration, and use of laboratory glassware and equipment; solution preparation skills; laboratory math and statistics; and using computers for data analysis.

Prerequisites: CMT 111

CMT 171 Chemical Operator 1

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on the Process Industry and the roles and responsibilities of Process Technicians. Topics include: applied chemistry and physics; process industry equipment; occupational safety; and skills and attitudes needed to succeed as a Process Technician.

Prerequisites: None

CMT 172 Chemical Operator 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of CMT 171, emphasizing chemical systems and operational processes and responsibilities of a Process Technician. Topics include: instrumentation, systems used in process technology operations, process documentation (P&ID's and PFDs), start-up and shut-down requirements, and process operator responsibilities. Prerequisites: CMT 171

CMT 191 Part-Time Cooperative Education 1: Chemical Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: None

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CMT 192 Part-Time Cooperative Education 2: Chemical Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 191

CMT 193 Part-Time Cooperative Education 3: Chemical Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 192

CMT 194 Part-Time Cooperative Education 4: Chemical Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 193

CMT 195 Part-Time Cooperative Education 5: Chemical Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 194

CMT 196 Part-Time Cooperative Education 6: Chemical Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CMT 195

CMT 198 First Year Special Topics in Chemical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Chemical Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

CMT 199 First Year Independent Project in Chemical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Chemical Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Chemical Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

CMT 220 Analytical Chemistry

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on quantitative and qualitative chemical analysis with emphasis on wet chemical techniques. Topics include: sample preparation; volumetric, gravimetric, electrochemical, and separation methods; and statistical treatment of data.

Prerequisites: CMT 112, CHE 122, and CHE 132

CMT 230 Chemical Instrumental Analysis 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on quantitative and qualitative chemical analysis. Topics include: instrumental techniques, electrochemistry, atomic and molecular spectroscopy, gas and liquid chromatography, mass spectrometry, and statistical treatment of data.

Prerequisites: CMT 220

Corequisites: CMT 285: Chemical Research

CMT 285 Chemical Research

1 Credit. 1 Lecture Hour. 0 Lab Hour.

Students apply knowledge of instrumental analysis to complete an independent research project, including developing a procedure, performing necessary testing, applying statistical techniques, and incorporating the data into a formal report and oral presentation.

Prerequisites: CMT 220

Corequisites: CMT 230: Chemical Instrumental Analysis

CMT 291 Full-Time Cooperative Education 1: Chemical Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

CMT 292 Full-Time Cooperative Education 2: Chemical Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 291

CMT 293 Full-Time Cooperative Education 3: Chemical Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 292

CMT 294 Internship 1: Chemical Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 111

CMT 295 Internship 2: Chemical Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CMT 294

CMT 298 Second Year Special Topics in Chemical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Chemical Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

CMT 299 Second Year Independent Project in Chemical Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Chemical Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Chemical Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

COMM

Courses

COMM 105 Interpersonal Communication

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study and practical application of principles of communication in human interactions. Topics include: self-awareness; perception; conflict; listening; interviewing; verbal and nonverbal codes; and cultural expectations and their effects on communication in family, classroom, work and intercultural settings.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Assurance Guide Approved

COMM 110 Public Speaking

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the preparation and effective delivery of various types of speeches. Topics include: improved listening techniques, audience participation, and evaluation.

Prerequisites: ENG 101

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

COMM 115 Introduction to Journalism

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on basic principles of journalism, emphasizing techniques for reporting and writing news stories.

Prerequisites: ENG 101

COMM 120 Mass Media and Society

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study and discussion of the role and function of mass media (newspapers, magazines, film, radio, TV, and computer multimedia) in today's society, including assessment of historical, business, and cultural perspectives and implications.

Prerequisites: ENG 101

COMM 130 Introduction to Film Studies

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on film as an expressive art and a cultural artifact, emphasizing American film from its inception to present. Topics include: developing critical awareness as an audience member; film history, genres, and themes; directing and acting styles; and technical elements of filmmaking.

Prerequisites: ENG 101

Ohio Transfer Module Approved

COMM 198 First Year Special Topics in Communications 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Communications, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

COMM 199 First Year Independent Project in Communications 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Communications that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Communications faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

COMM 205 Small Group Communication 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of the dynamics of communication in the small group context. Topics include: small group communication theory and research, awareness of personal and others' behaviors in small groups, enhancing individual functioning in groups, and analyzing/improving the functioning of other groups.

Prerequisites: COMM 105

Ohio Transfer Assurance Guide Approved

COMM 215 Journalism Practicum

2 Credits. 1 Lecture Hour. 7 Lab Hours.

Study and application of journalism principles through faculty-supervised writing, editing, and production of a College publication.

May be repeated for credit.

Prerequisites: COMM 115 or instructor consent

COMM 298 Second Year Special Topics in Communications 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Communications, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

COMM 299 Second Year Independent Project in Communications 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Communications that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Communications faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CPDM

Courses

CPDM 145 Data Reporting

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on using Crystal Reports as the tool to design and deliver reports that include tables, charts, and graphs as part of a Web-based application linked to an SQL server database.

Prerequisites: IT 101, IT 110, IT 111 or CIT 110 (minimum grade C for all)

CPDM 151 ASP.NET C# 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the ASP.NET framework using C#. Topics include: introduction to C# language and syntax, Web forms, server controls, master pages, AJAX, and data driven applications.

Prerequisites: IT 101, IT 110, IT 111, (minimum grade C for all)

CPDM 152 ASP.NET C# 2

3 Credits, 2 Lecture Hours, 3 Lab Hours,

A continuation of CPDM 151. Topics include: advanced ASP.NET server controls, building custom classes, Web services, designing Web applications from abstract requirements, and effectively utilizing online reference materials.

Prerequisites: CPDM 151

CPDM 190 Cooperative Education Preparation: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course that prepares students in the CPDM program for cooperative education. Topics include: using the PlacePro software system, resume development, interview skills, and cooperative education requirements, policies and procedures.

Prerequisites: None

CPDM 191 Part-Time Cooperative Education 1: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

CPDM 192 Part-Time Cooperative Education 2: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 191

CPDM 193 Part-Time Cooperative Education 3: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CPDM 192

CPDM 194 Part-Time Cooperative Education 4: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 193

CPDM 195 Part-Time Cooperative Education 5: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CPDM 194

CPDM 196 Part-Time Cooperative Education 6: Computer Programming and Database Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CPDM 195

CPDM 198 First Year Special Topics in Computer Programming and Database Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Programming and Database Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

CPDM 199 First Year Independent Project in Computer Programming and Database Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Programming and Database
Management that is completed by one or more students to meet
specific educational goals. Projects must have prior approval and
supervision by Computer Programming and Database Management
faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

CPDM 210 System Analysis and Design 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental concepts in system analysis and design, within the framework of the system development life cycle. Topics include: business case analysis, requirement gathering, requirement modeling, enterprise modeling, and development strategies. Prerequisites: None

CPDM 211 Business Application Development 1: RPGLE/DB2 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on the IBM operating system and utilities, including DB2, Control Language, Query, SDA, and SQL. Topics include: RPGLE utilization of forms/specifications, language operation codes and special functions used to generate reports, and transaction-level file maintenance.

Prerequisites: IT 102

CPDM 212 Business Application Development 2: RPGLE/DB2 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of CPDM 211. Topics include: RPGLE procedural programming including arrays/list processing, interactive applications, and subfiles; interactive and embedded SQL; and ILE programming through service programs to address introductory cross-platform programming.

Prerequisites: CPDM 211

CPDM 230 Mobile Application Development 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on designing and programming applications for current mobile devices. Topics include: GUI programming application structure; and considerations related to networks, databases, video, GPS sensors, and multi-touch technology.

Prerequisites: IT 102

CPDM 240 Emerging Technologies: Web and Mobile Applications 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on emerging technologies in software and applications development for the web and mobile devices.

Prerequisites: CPDM 230

CPDM 290 Computer Programming and Database Management Capstone

3 Credits. 2 Lecture Hours. 3 Lab Hours.

Students work on a team project that demonstrates mastery of skills gained throughout their degree studies. Topics include: developing a project idea, conducting a feasibility study for the idea, gathering and analyzing requirements, and designing and implementing a solution. Prerequisites: IT 218 or IT 262 or SET 253

CPDM 291 Full-Time Cooperative Education 1: Computer Programming and Database Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

CPDM 292 Full-Time Cooperative Education 2: Computer Programming and Database Management 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 291

CPDM 293 Full-Time Cooperative Education 3: Computer Programming and Database Management 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 292

CPDM 294 Internship 1: Computer Programming and Database Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 190

CPDM 295 Internship 2: Computer Programming and Database Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 294

CPDM 296 Project-Based Learning 1

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time project-based learning experience related to their degree. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IT 102

CPDM 297 Project-Based Learning 2

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime project-based learning experience related to their degree. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CPDM 296 or CPDM 291

CPDM 298 Second Year Special Topics in Computer Programming and Database Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Programming and Database Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

CPDM 299 Second Year Independent Project in Computer Programming and Database Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Programming and Database
Management that is completed by one or more students to meet
specific educational goals. Projects must have prior approval and
supervision by Computer Programming and Database Management
faculty. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: Instructor Approval

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CRJ

Courses

CRJ 102 Juvenile Delinquency

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on juvenile delinquency and the juvenile court system. Prerequisites: AFL 085 or appropriate placement test score

CRJ 105 Introduction to Criminal Justice 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the American criminal justice system. Topics include: police, courts, corrections, constitutional issues, citizen participation, and current practice.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Assurance Guide Approved

CRJ 110 Introduction to Policing

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on structure and practices of policing in the United States. Topics include: relationship of police agencies to other elements of the justice system, diversity, drug enforcement, corruption and reform, community relations, and effects of technology on policing.

Prerequisites: CRJ 105

Ohio Transfer Assurance Guide Approved

CRJ 115 Introduction to Corrections

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the history, principles, and practices of the American corrections system. Topics include: incarceration, parole, and probation; operations of jails and prisons; and alternatives to incarceration including community-based programs.

Prerequisites: CRJ 105

Ohio Transfer Assurance Guide Approved

CRJ 120 Introduction to Courts

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the history, principles, and practices of the American court system. Topics include: purposes of different types of courts; members of the courtroom work group; trial, sentencing, and appellate processes; and the role of courts in society.

Prerequisites: CRJ 105 **CRJ 125 Criminology**

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theoretical explanations for criminal behavior. Topics include: major historical developments in understanding criminal behavior, major types of crime measures, and the nature and extent of criminal victimization.

Prerequisites: CRJ 105

Ohio Transfer Assurance Guide Approved

CRJ 130 Criminal Investigation Skills

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on basic criminal investigation processes and techniques. Topics include: criminalistics, forensics, types of evidence, procedures for handling evidence, and admissibility of evidence.

Prerequisites: CRJ 105

CRJ 135 Criminal Law 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the American legal system emphasizing a criminal justice perspective. Topics include: theories of law, elements of criminal offenses, defenses to criminal acts, and constitutional rights of those charged with a criminal offense.

Prerequisites: CRJ 105

CRJ 198 First Year Special Topics in Criminal Justice 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Criminal Justice, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CRJ 199 First Year Independent Project in Criminal Justice 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Criminal Justice that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Criminal Justice faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CRJ 298 Second Year Special Topics in Criminal Justice 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Criminal Justice, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CRJ 299 Second Year Independent Project in Criminal Justice 1-9 Credits, 0 Lecture Hour, 0 Lab Hour,

A project related to Criminal Justice that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Criminal Justice faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CSA

Courses

CSA 111 Computer Repair 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on theory and operation of computer systems. Topics include: operating systems, interface of operating systems and hardware, central processing unit (CPU) structures and evolution, bus structures, memory, data storage, input/output devices, motherboard structures, number systems, and USB/IEEE 1392 data transmission. Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

CSA 112 Computer Repair 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of CSA 111. Topics include: examining the board/ component level of computer systems while using diagnostic software and instrumentation to isolate failures and restore systems to normal operation.

Prerequisites: CSA 111

CSA 191 Part-Time Cooperative Education 1: Computer Support and Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

CSA 192 Part-Time Cooperative Education 2: Computer Support and Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 191

CSA 193 Part-Time Cooperative Education 3: Computer Support and Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 192

CSA 194 Part-Time Cooperative Education 4: Computer Support and Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 193

CSA 195 Part-Time Cooperative Education 5: Computer Support and Administration

1 Credit, 1 Lecture Hour, 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 194

CSA 196 Part-Time Cooperative Education 6: Computer Support and Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 195

CSA 198 First Year Special Topics in Computer Support and Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Support and Administration, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CSA 199 First Year Independent Project in Computer Support and Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Support and Administration that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Computer Support and Administration faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CSA 213 Computer Repair 3

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of CSA 112. Topics include: specialized hardware, peripheral devices, system optimization, driver installation, internet connectivity, and printer maintenance.

Prerequisites: CSA 112

CSA 290 Computer Support and Administration Capstone 3 Credits. 2 Lecture Hours. 2 Lab Hours.

Students work in teams to complete a design project using analog and digital concepts, and prepare a presentation of results. Topics include: design theory, feasibility study, project economics, team building, and effective presentations.

Prerequisites: CSA 112, and NETA 115 or NETC 121

CSA 291 Full-Time Cooperative Education 1: Computer Support and Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

CSA 292 Full-Time Cooperative Education 2: Computer Support and Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 291

CSA 293 Full-Time Cooperative Education 3: Computer Support and Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 292

CSA 294 Internship 1: Computer Support and Administration 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

CSA 295 Internship 2: Computer Support and Administration 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CSA 294

CSA 298 Second Year Special Topics in Computer Support and Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Support and Administration, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

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CSA 299 Second Year Independent Project in Computer Support and Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Support and Administration that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Computer Support and Administration faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CUL

Courses

CUL 100 Culinary Demonstration 2 Credits, 2 Lecture Hours, 0 Lab Hour,

A course that uses culinary demonstrations and problem solving to prepare students for activities in CUL 101.

Prerequisites: AFM 092 or appropriate placement test score

Corequisites: Take CUL 101 Instructor Consent Required

CUL 101 Culinary 1

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on fundamental culinary skills. Topics include: kitchen orientation, knife skills, cooking methods, and preparation of stocks, sauces, and soups.

Prerequisites: AFM 092 (minimum grade C) or appropriate placement

test score

Corequisites: CUL 100 Instructor Consent Required

CUL 102 Culinary 2

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A continuation of CUL 101. Topics include: advanced cooking methods; meat, fish, and poultry cookery; and platter presentation. Prerequisites: CUL 100 and CUL 101 and HRM 105 (minimum grade C

Instructor Consent Required

CUL 105 Culinary Baking

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on concepts and techniques of baking and pastries. Topics include: product identification, use of baking equipment, production of flour confectionery items, and preparation of desserts.

Prerequisites: CUL 100 and CUL 101 (minimum grade C for both) Instructor Consent Required

CUL 110 Culinary Nutrition

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on concepts and techniques for combining nutrition science with the art of preparing food that is wholesome and nutritionally balanced. Topics include: practical applications of nutrition theory, modifying recipes, and developing menus.

Prerequisites: CUL 102 (minimum grade C)

Instructor Consent Required

CUL 150 Culinary Management ATS: Advanced Stand 30 Credits. 30 Lecture Hours. 0 Lab Hour.

Students complete industry training specific to culinary education, such as Cincinnati Cooks.

Prerequisites: Program Chair consent Instructor Consent Required

CUL 191 Part-Time Cooperative Education 1: Culinary Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 100 and co-op coordinator consent Instructor Consent Required

CUL 192 Part-Time Cooperative Education 2: Culinary Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CUL 191

CUL 193 Part-Time Cooperative Education 3: Culinary Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CUL 192

CUL 194 Part-Time Cooperative Education 4: Culinary Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CUL 193

CUL 195 Part-Time Cooperative Education 5: Culinary Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: CUL 194

CUL 196 Part-Time Cooperative Education 6: Culinary Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

CUL 198 First Year Special Topics in Culinary Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Culinary Arts, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CUL 199 First Year Independent Project in Culinary Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Culinary Arts that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Culinary Arts faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CUL 200 Garde Manger

4 Credits. 0 Lecture Hour. 8 Lab Hours.

A course on concepts and techniques for contemporary practice of garde manger. Topics include: basic meat fabrication, knowledge of the cold kitchen, and platter and buffet presentation.

Prerequisites: CUL 102 and CUL 105 (minimum grade C for both) Instructor Consent Required

CUL 205 Culinary Production

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on concepts of food service production and service techniques. Topics include: buffet, banquet, and a la carte production. Prerequisites: CUL 102 (minimum grade C) and BUS 190 Instructor Consent Required

CUL 210 International Cuisine

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A study of world cuisines. Topics include: regional products, cultural influences on food, differentiated cooking techniques, and international menus.

Prerequisites: CUL 200 (minimum grade C)

Instructor Consent Required

CUL 290 Culinary Capstone

3 Credits. 0 Lecture Hour. 6 Lab Hours.

Students complete project work while applying knowledge and skills from culinary, nutrition, costing, and management areas.

Prerequisites: CUL 110 and CUL 200 and CUL 205 (minimum grade C

CUL 291 Full-Time Cooperative Education 1: Culinary Arts 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HRM 100 and co-op coordinator consent Instructor Consent Required

CUL 292 Full-Time Cooperative Education 2: Culinary Arts 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CUL 291

CUL 293 Full-Time Cooperative Education 3: Culinary Arts 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CUL 292

CUL 298 Second Year Special Topics in Culinary Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Culinary Arts, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CUL 299 Second Year Independent Project in Culinary Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Culinary Arts that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Culinary Arts faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CULT

Courses

CULT 105 Issues in Human Diversity 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of concepts of human diversity and the effects of diversity on individuals and society. Topics include: race; gender; social class; sexual orientation; ablism; stereotypes, bias, and discrimination; and diversity in the workplace.

Prerequisites: AFL 085 or appropriate placement test score

CULT 110 Social Issues in Technology 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of social issues that affect professionals in engineering and information technology fields. Topics include: work skills for the 21st century, professional ethics and whistleblowing, diversity in the workplace, social effects of globalization, and the impact of natural and engineering disasters.

Prerequisites: ENG 101

CULT 198 First Year Special Topics in Culture Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Culture Studies, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CULT 199 First Year Independent Project in Culture Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Culture Studies that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Culture Studies faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

CULT 200 Introduction to Cultural Studies 3 Credits, 3 Lecture Hours, 0 Lab Hour.

A course on examining and understanding how cultural processes and artifacts seen in the media and in everyday life are produced, distributed, consumed, and interpreted. Topics include: theories and analytical approaches, and cultural phenomena such as politics, power, and violence; gender and sexuality; and ethnicity and multiculturalism.

Prerequisites: ENG 101 (minimum grade C)

CULT 298 Second Year Special Topics in Culture Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Culture Studies, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

CULT 299 Second Year Independent Project in Culture Studies 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Culture Studies that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Culture Studies faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

DMS

Courses

DMS 100 Survey of Sonography

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on foundation concepts in the field of medical sonography. Topics include: the role of the sonographer in the healthcare setting, ultrasound system controls and functions, image production and display, and basic ultrasound physics.

Prerequisites: BIO 151 and MCH 104 (minimum grade C for both)

DMS 111 Sonographic Principles and Instrumentation 1 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of physics in relation to ultrasound function and instrumentation. Topics include: characteristics of sound energy; using ultrasound in imaging; and waveforms, propagation, velocity, wavelength, acoustic impedance, reflection, and other types of interaction with tissue.

Prerequisites: MAT 150 Instructor Consent Required

DMS 112 Sonographic Principles and Instrumentation 2 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DMS 111. Topics include: integrating knowledge of physics with instrumentation theory and applications; understanding advanced signal processing, complex instrumentation, recording devices, biological effects, hemodynamics, Doppler principles, and quality control methods; and producing high quality diagnostic images. Prerequisites: DMS 111

DMS 198 First Year Special Topics in Diagnostic Medical

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Diagnostic Medical Sonography, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

Sonography

DMS 199 First Year Independent Project in Diagnostic Medical Sonography

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Diagnostic Medical Sonography that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

DMS 255 Ethics and Medical Law in Sonography 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on ethical and legal issues related to the sonography profession. Topics include: laboratory accreditation, professional education, and research standards and practices.

Prerequisites: DMSC 232 and DMSC 242, or DMSG 232 and DMSG 242 (minimum grade C for all)

DMS 298 Second Year Special Topics in Diagnostic Medical Sonography

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Diagnostic Medical Sonography, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

DMS 299 Second Year Independent Project in Diagnostic Medical Sonography

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Diagnostic Medical Sonography that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

DMSC

Courses

DMSC 110 Advanced Electrocardiography 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on electrocardiography principles and techniques. Topics include: patient preparation, 12-lead ECG setup and interpretation, common dysrhythmia recognition, myocardial infarct patterns, and chamber enlargement.

Prerequisites: Admitted to the DMS program through the selective enrollment process, and instructor consent Instructor Consent Required

DMSC 120 Cardiovascular Sonography 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on cardiovascular scanning techniques and the operation of ultrasound systems. Topics include: professional standards and behaviors, basic ultrasound machine controls, scan planes, demonstration of appropriate imaging, and use of descriptive terminology associated with cardiac and vascular studies.

Prerequisites: Instructor consent

Corequisites: DMSC 121: Cardiovascular Sonography Scan Lab 1 Instructor Consent Required

DMSC 121 Cardiovascular Sonography Scan Lab 1 2 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on developing skills in the scanning techniques and protocols related to cardiac and vascular structures and physiology.

Prerequisites: Instructor consent

Corequisites: DMSC 120: Cardiovascular Sonography DMS 111: Sonographic Principles and Instrumentation 1 DMSC 110: Advanced Electrocardiography

Instructor Consent Required

DMSC 122 Cardiovascular Sonography Scan Lab 2 2 Credits. 0 Lecture Hour. 6 Lab Hours.

A continuation of DMSC 121, emphasizing increased experience using scanning techniques and protocols related to cardiac and vascular structures and physiology.

Prerequisites: DMSC 121 (minimum grade C)

Corequisites: DMSC 131 : Vascular Sonography 1 DMSC 141 : Echocardiography 1 DMS 112 : Sonographic Principles and

Instrumentation 2

DMSC 131 Vascular Sonography 1

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on theory and principles of vascular sonography. Topics include: vascular anatomy and physiology; etiology of pathologies; imaging techniques and protocols; and detecting and differentiating abnormalities, pathologies, and other deviations from normal development.

Prerequisites: DMSC 120 and DMSC 121 (minimum grade C for both) Corequisites: DMSC 141 : Echocardiography 1 DMSC 122 : Cardiovascular Sonography Scan Lab 2 DMS 112 : Sonographic Principles and Instrumentation 2

DMSC 141 Echocardiography 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theory and principles of adult cardiac sonography. Topics include: cardiac anatomy and physiology; etiology of pathologies; imaging techniques and protocols; and detecting and differentiating abnormalities, pathologies, and other deviations from normal development.

Prerequisites: DMSC 120 and DMSC 121 (minimum grade C for both) Corequisites: DMSC 131 : Vascular Sonography 1 DMSC 122 : Cardiovascular Sonography Scan Lab 2 DMS 112 : Sonographic Principles and Instrumentation 2

DMSC 198 First Year Special Topics in Diagnostic Medical Sonography - Cardiovascular

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Diagnostic Medical Sonography - Cardiovascular, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

DMSC 199 First Year Independent Project in Diagnostic Medical Sonography - Cardiovascular

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Diagnostic Medical Sonography - Cardiovascular that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography - Cardiovascular faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

DMSC 223 Cardiovascular Sonography Scan Lab 3 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A continuation of DMSC 122, emphasizing increased skills and experience using scanning techniques and protocols related to cardiac and vascular structures and physiology.

Prerequisites: DMSC 122 (minimum grade C)

DMSC 224 Cardiovascular Sonography Scan Lab 4 2 Credits. 0 Lecture Hour. 4 Lab Hours.

Students demonstrate required sonography competencies and proficiencies prior to completion of the program.

Prerequisites: DMSC 223

DMSC 232 Vascular Sonography 2

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DMSC 131, with additional information on theory and principles of vascular sonography.

Prerequisites: DMSC 131 (minimum grade C)

DMSC 242 Echocardiography 2

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DMSC 141, with additional information on theory and principles of adult cardiac sonography.

Prerequisites: DMSC 141 (minimum grade C)

DMSC 245 Cardiovascular Specialties

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on advanced procedures and emerging technologies in the field of cardiovascular ultrasound.

Prerequisites: DMSC 232, DMSC 242 (minimum grade C for both)

DMSC 250 Cardiovascular Imaging Seminar 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on integration of concepts and clinical applications in cardiovascular sonography. Topics include: current trends and advanced cardiovascular procedures and technologies, transition to an entry-level cardiovascular sonography position, mock registry examinations, and preparation for national credentialing examinations. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: DMSC 224, DMSC 232, and DMSC 242 (minimum grade C for all)

DMSC 281 Cardiovascular Internship 1

1 Credit. 0 Lecture Hour. 24 Lab Hours.

Students participate in supervised practice of cardiac and vascular diagnostic ultrasound procedures in hospitals, clinics, and private physician offices. Students are evaluated on professional behavior and performance, and clinical competency.

Prerequisites: DMSC 122 and DMSC 131 and DMSC 141 (minimum grade C for all)

Corequisites: DMSC 223: Cardiovascular Sonography Scan Lab 3

DMSC 282 Cardiovascular Internship 2

1 Credit. 0 Lecture Hour. 24 Lab Hours.

A continuation of DMSC 281. Students participate in supervised practice of cardiac and vascular diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSC 281

Corequisites: DMSC 232: Vascular Sonography 2 DMSC 242: Echocardiography 2 DMSC 224: Cardiovascular Sonography Scan

DMSC 283 Cardiovascular Internship 3

2 Credits. 0 Lecture Hour. 32 Lab Hours.

A continuation of DMSC 282. Students participate in supervised practice of cardiac and vascular diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSC 282

Corequisites: DMSC 250: Cardiovascular Imaging Seminar

DMSC 298 Second Year Special Topics in Diagnostic Medical Sonography - Cardiovascular

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Diagnostic Medical Sonography - Cardiovascular, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

DMSC 299 Second Year Independent Project in Diagnostic Medical Sonography - Cardiovascular

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Diagnostic Medical Sonography - Cardiovascular that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography - Cardiovascular faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

DMSG

Courses

DMSG 110 Sterile Techniques

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on fundamental surgical skills and surgical room setup procedures. Topics include: rules and regulations for sterile environments, sterile trays and other equipment, technician behavior in sterile environments, infection risk control, surgical asepsis, anesthesia, and specimen care.

Prerequisites: Admitted to the DMS program through the selective enrollment process, and instructor consent Instructor Consent Required

DMSG 120 General Imaging Sonography 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on general imaging scanning techniques and the operation of ultrasound systems. Topics include: professional standards and behaviors, basic ultrasound machine controls, scan planes, demonstration of appropriate imaging techniques, and use of descriptive terminology associated with abdomen, obstetrics, and gynecological studies.

Prerequisites: Instructor consent

Corequisites: DMSG 121: General Imaging Sonography Scan Lab 1

Instructor Consent Required

DMSG 121 General Imaging Sonography Scan Lab 1 2 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on developing skills in the scanning techniques and protocols related to abdominal, superficial parts, obstetrics, and gynecological structures and physiology.

Prerequisites: Instructor consent

Corequisites: DMSG 120: General Imaging Sonography DMS 111: Sonographic Principles and Instrumentation 1 DMSG 110: Sterile

Techniques

Instructor Consent Required

DMSG 122 General Imaging Sonography Scan Lab 2 2 Credits. 0 Lecture Hour. 6 Lab Hours.

A continuation of DMSG 121, emphasizing increased experience using scanning techniques and protocols related to abdominal, superficial parts, obstetrics, and gynecological structures and physiology.

Prerequisites: DMSG 121 (minimum grade C)

Corequisites: DMSG 131: Abdominal Sonography 1 DMSG 141: Obstetrics and Gynecology Sonography 1 DMS 112 : Sonographic Principles and Instrumentation 2

DMSG 131 Abdominal Sonography 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theory and principles of abdominal and superficial parts sonography. Topics include: normal and abnormal etiology, diagnostic techniques and correlation with clinical tests, scanning techniques and protocols, and detection of abnormalities and pathologies.

Prerequisites: DMSG 120 and DMSG 121 (minimum grade C for both) Corequisites: DMSG 141: Obstetrics and Gynecology Sonography 1 DMSG 122 : General Imaging Sonography Scan Lab 2 DMS 112 : Sonographic Principles and Instrumentation 2

DMSG 141 Obstetrics and Gynecology Sonography 1 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theory and principles of obstetrical and gynecological sonography. Topics include: normal and abnormal etiology; diagnostic techniques related to gyneocology and fetal development; scanning techniques and protocols; and detecting abnormalities, pathologies, and other deviations from normal development.

Prerequisites: DMSG 120 and DMSG 121 (minimum grade C for both) Corequisites: DMSG 131: Abdominal Sonography 1 DMSG 122: General Imaging Sonography Scan Lab 2 DMS 112: Sonographic Principles and Instrumentation 2

DMSG 198 First Year Special Topics in Diagnostic Medical Sonography - General Imaging

1-9 Credits, 0 Lecture Hour, 0 Lab Hour,

A course on selected topics related to Diagnostic Medical Sonography - General Imaging, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

DMSG 199 First Year Independent Project in Diagnostic Medical Sonography - General Imaging

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Diagnostic Medical Sonography - General Imaging that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography - General Imaging faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

DMSG 223 General Imaging Sonography Scan Lab 3 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A continuation of DMSG 122, emphasizing increased experience using scanning techniques and protocols related to abdominal, superficial parts, obstetrics, and gynecological structures and physiology.

Prerequisites: DMSG 122 (minimum grade C)

DMSG 224 General Imaging Sonography Scan Lab 4 2 Credits. 0 Lecture Hour. 4 Lab Hours.

Students demonstrate required sonography competencies and proficiencies prior to completion of the program.

Prerequisites: DMSG 223

DMSG 232 Abdominal Sonography 2

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DMSG 131, with additional information on theory and principles of abdominal and superficial parts sonography.

Prerequisites: DMSG 131 (minimum grade C)

DMSG 242 Obstetrics and Gynecology Sonography 2 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DMSG 141, with additional information on theory and principles of obstetrical and gynecological sonography.

Prerequisites: DMSG 141 (minimum grade C)

DMSG 245 General Imaging Specialties 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on advanced procedures and emerging technologies in the field of general imaging ultrasound.

Prerequisites: DMSG 232, DMSG 242 (minimum grade C for both)

DMSG 250 General Imaging Seminar

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on integration of concepts and clinical applications in general sonography. Topics include: current trends and advanced sonographic procedures and technologies, transition to an entry-level general imaging sonography position, mock registry examinations, and preparation for national credentialing examinations. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: DMSG 224, DMSG 232 and DMSG 242 (Minimum grade C for all)

DMSG 281 General Imaging Internship 1

1 Credit. 0 Lecture Hour. 24 Lab Hours.

Students participate in supervised practice of general imaging and obstetrical diagnostic ultrasound procedures in hospitals, clinics, and private physician offices. Students are evaluated on professional behavior and performance, and clinical competency.

Prerequisites: DMSG 122 and DMSG 131 and DMSG 141 (minimum grade C for all)

Corequisites: DMSG 223: General Imaging Sonography Scan Lab 3

DMSG 282 General Imaging Internship 2

1 Credit. 0 Lecture Hour. 24 Lab Hours.

A continuation of DMSG 281. Students participate in supervised practice of general imaging and obstetrical diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSG 281

Corequisites: DMSG 232 : Abdominal Sonography 2 DMSG 242 : Obstetrics and Gynecology Sonography 2

DMSG 283 General Imaging Internship 3

2 Credits. 0 Lecture Hour. 32 Lab Hours.

A continuation of DMSG 282. Students participate in supervised practice of general imaging and obstetrical diagnostic ultrasound procedures in hospitals, clinics, and private physician offices.

Prerequisites: DMSG 282

Corequisites: DMSG 250: General Imaging Seminar

DMSG 298 Second Year Special Topics in Diagnostic Medical Sonography - General Imaging

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Diagnostic Medical Sonography - General Imaging, which gives students opportunities to study

information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

DMSG 299 Second Year Independent Project in Diagnostic Medical Sonography - General Imaging

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Diagnostic Medical Sonography - General Imaging that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Diagnostic Medical Sonography - General Imaging faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

Courses

DT 110 Community Nutrition

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A study of public health nutrition programs in the U.S. Topics include: food availability; laws, regulations, and polices; and the influence of socioeconomic, cultural, and psychological factors on food and nutrition behavior. Students participate in supervised practice.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test

scores, and instructor consent Corequisites: DT 190: Dietetic Professional Practices

Instructor Consent Required

DT 115 Cooking for a Healthy Lifestyle 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on food preparation techniques and healthy food choices for individuals. Topics include: preparing and evaluating healthy foods, modifying recipes, food safety, alternative food choices, and special diet considerations.

Prerequisites: AFL 085 or appropriate placement test score

DT 120 Nutrition for a Healthy Lifestyle 3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to nutrition concepts and diets for healthy living. Topics include: health risks; socioeconomic, cultural, psychological, and environmental influences; health promotion; disease prevention; complementary, alternative, and herbal therapies; dietary supplements; and lifecycle nutrition.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

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DT 125 Nutrition Through the Lifecycle 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on nutritional needs from preconception through maturity. Topics include: influence of age, growth, and normal development on nutritional requirements; diet planning principles for diverse age groups; and promoting healthy eating to reduce age-related nutrition problems

Prerequisites: DT 120 (minimum grade C)

DT 130 Nutrition Assessment

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on principles of assessment for normal nutrition. Topics include: the nutrition care process, anthropometrics, drug/nutrient interactions, collecting and interpreting lab values, computerized analysis, and interviewing and counseling skills.

Prerequisites: DT 120 (minimum grade C)

Corequisites: DT 180

DT 135 Sports Nutrition

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the nutrition needs of active people and athletes. Topics include: nutrient requirements for optimal health, fitness, and sports; weight control; popular nutrition supplements; and ergogenic aids.

Prerequisites: DT 120 (minimum grade C)



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DT 180 Dietetic Directed Practice: Health Care 1 1 Credit. 0 Lecture Hour. 5 Lab Hours.

Students participate in supervised practice in health care and acute care settings. Topics include: nutrition care process, assessment techniques, lifecycle nutrition, interviewing skills, screening, monitoring food and nutrient intake, and menu modification.

Prerequisites: DT 120 (minimum grade C) and instructor consent

Corequisites: DT 130 Instructor Consent Required

DT 190 Dietetic Professional Practices

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course that prepares Dietetic Technology students for clinical and management practices and practicums. Topics include: dietetic professional practice requirements, review of student handbook, dietetic licensure, HIPAA, and blood-borne pathogen and safety

Prerequisites: AFL 080 and AFM 092, or appropriate placement test

scores, and instructor consent

Corequisites: DT 110 Instructor Consent Required

DT 198 First Year Special Topics in Dietetics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Dietetics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, or F.

Prerequisites: Vary by section

DT 199 First Year Independent Project in Dietetics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Dietetics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Dietetics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

DT 205 Quantity Food Production 3 Credits. 1 Lecture Hour. 4 Lab Hours.

A course on quantity food production practices. Topics include: identification, care, and use of institutional food service equipment; standardized recipes; quality assurance; work efficiency; costing; and

food evaluation.

Prerequisites: HRM 105

DT 211 Food Service Management 1 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on fundamental concepts of food service management. Topics include: meal service and delivery systems, evaluating meal production, performance standards, scheduling, and staffing.

Prerequisites: DT 120 (minimum grade C)

Corequisites: DT 280

DT 212 Food Service Management 2 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of DT 211. Topics include: management responsibilities, interviewing and recruiting, performance review, productivity, work simplification, budgeting, and professional ethics.

Prerequisites: DT 211 (minimum grade C)

Corequisites: DT 287

DT 215 Nutrition for Dietary Managers 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on nutrition concepts related to the Dietary Manager's scope of practice. Topics include: medical nutrition therapy, documentation, care planning, nutrition education, and healthcare regulations.

Prerequisites: DT 125 (minimum grade C)

DT 221 Medical Nutrition Therapy 1 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on nutrition care processes and diet modification for various disease states. Topics include: weight management, upper and lower gastrointestinal tract, diabetes, parenteral and enteral nutrition, swallowing, and feeding disorders.

Prerequisites: DT 130 (minimum grade C)

Corequisites: DT 285

DT 222 Medical Nutrition Therapy 2 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of DT 221. Topics include: nutrition in severe stress; renal disease; liver disease; cancer; HIV and AIDS; heart, lung, and blood vessel diseases; and pressure ulcers and burns.

Prerequisites: DT 221 (minimum grade C)

Corequisites: DT 289

DT 225 Dietary Manager Exam Review 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course that prepares students to take the Dietary Manager credentialing examination.

Prerequisites: Complete all required DT courses (minimum grade C for all), and instructor consent

Instructor Consent Required

DT 280 Dietetic Directed Practice: Food Service 1 Credit, 0 Lecture Hour, 6 Lab Hours.

Students participate in supervised practice in a health care food service setting. Topics include: food service management, human resources, sanitation, procurement, distribution and food cost, menu cost, recipe development, and equipment specifications.

Prerequisites: DT 110 and instructor consent Corequisites: DT 211: Food Service Management 1

Instructor Consent Required

DT 283 Dietetic Directed Practice: Health Care 2 1 Credit. 0 Lecture Hour. 5 Lab Hours.

Students participate in supervised practice in a health care setting. Topics include: applying the nutrition care process, care plans, enteral and parenteral nutrition, transitional feeding, severe stress, and disorders of lower and upper gastrointestinal tract.

Prerequisites: DT 180 (minimum grade C) and instructor consent

Corequisites: DT 221 Instructor Consent Required

DT 285 Dietetic Directed Practice: Health Care 3 1 Credit. 0 Lecture Hour. 5 Lab Hours.

Students participate in supervised practice in a health care setting while building on previous directed practice experience. Topics include: quality improvement, health care regulations, and pediatric nutrition assessment.

Prerequisites: DT 180 and instructor consent

Corequisites: DT 221 Instructor Consent Required

Cincinnati State

DT 287 Dietetic Practicum: Food Service 2 Credits. 1 Lecture Hour. 7 Lab Hours.

Students participate in unpaid work experience in a food service management setting and complete an individualized final project agreed upon by the student and instructor.

Prerequisites: DT 280 (minimum grade C) and instructor consent

Corequisites: DT 212 Instructor Consent Required

DT 289 Dietetic Practicum: Clinical 2 Credits. 1 Lecture Hour. 7 Lab Hours.

Students participate in unpaid work experience in a health care setting, complete individual curriculum goals, and review Academy of Nutrition and Dietetics competencies.

Prerequisites: DT 283 and DT 285 and instructor consent Corequisites: DT 222: Medical Nutrition Therapy 2

Instructor Consent Required

DT 290 Dietetic Competencies 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course that prepares students for the Dietetic Technician Registration Exam and entry into the dietetic profession. Topics include: exam review, clinical and food service review, and professional portfolio development. Students must pass a final competency exam to pass this course.

Prerequisites: Complete all required DT courses (minimum grade C for all), and instructor consent

Instructor Consent Required

DT 298 Second Year Special Topics in Dietetics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Dietetics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, or F.

Prerequisites: Vary by section

DT 299 Second Year Independent Project in Dietetics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Dietetics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Dietetics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ECC

Courses

ECC 145 Diverse Populations and Families 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for teaching diverse populations in early childhood settings. Topics include: developing positive relationships in diverse family units, inclusion, multiculturalism, and adapting learning environments to include gifted children and children with disabilities.

Prerequisites: None

ECC 198 First Year Special Topics in Early Child Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Early Child Care, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ECC 199 First Year Independent Project in Early Child Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Early Child Care that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Early Child Care faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ECC 298 Second Year Special Topics in Early Child Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Early Child Care, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ECC 299 Second Year Independent Project in Early Child Care 0 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Early Child Care that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Early Child Care faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ECE

Courses

ECE 111 Child Development Associate 1 4 Credits. 4 Lecture Hours. 0 Lab Hour.

This course provides 60 of the 120 clock-hours of training required by the Council for Early Childhood Professionals Recognition/CDA National Credential Program. Topics include: six competency standards and 13 functional areas required for the credential program, focusing on the competency areas safe and healthy environments, physical and intellectual competence, and social and emotional development.

Prerequisites: None

ECE 112 Child Development Associate 2 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of ECE 111 that provides 60 clock-hours of additional training. Topics include: six competency standards and 13 functional areas, focusing on relationships with families, program organization, and professionalism, as well as preparing for the competency test and portfolio review.

Prerequisites: ECE 111

ECE 145 The Developing Child

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on growth and development of children from birth through age eight. Topics include: characteristics and needs of children for physical, cognitive, language, social, and emotional growth and development; and theories of early childhood education.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

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ECE 155 Health, Safety, and Nutrition in Childhood 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for managing health, safety, and nutrition in child care settings serving infants through school age children. Topics include: childhood communicable diseases, licensing requirements, and nutritional needs of young children.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

ECE 160 Assessment and Observation in Early Childhood Education

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on strategic and purposeful techniques for observing, recording, and assessing the progress of children from infants to school age.

Prerequisites: EDU 105 and ECE 145 (minimum grade C for both)

ECE 165 Emergent Literacy

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on growth and development of oral language from birth to school age. The course meets the Ohio Early Learning Standards for reading and writing for young children. Topics include: the study of reading and writing, the teacher's role in promoting early literacy, and phonemic awareness.

Prerequisites: EDU 105 and ECE 145 (minimum grade C for both)

ECE 175 Family, Community, and Schools 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for parent/teacher collaboration. Topics include: effective communication among parents, teachers, and other professionals for enhancing child development; maintaining positive relationships; and working with diverse family units.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

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ECE 180 Infant and Toddler Environments 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for care and nurturing of infants and toddlers. Topics include: promoting growth and development, classroom management, and developmentally appropriate practice. Students spend three hours per week in an early childhood care setting.

Prerequisites: ECE 145 and EDU 105 (minimum grade C for both)

ECE 185 Creative Learning Environments 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on creating learning experiences for young children. Topics include: art, music, social studies, math, and science curricula; indoor and outdoor play; and selecting developmentally appropriate materials and equipment.

Prerequisites: EDU 105 and ECE 145 (minimum grade C for both)

ECE 198 First Year Special Topics in Early Child Care Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Early Child Care Education, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

ECE 199 First Year Independent Project in Early Child Care Education

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Early Child Care Education that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Early Child Care Education faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

ECE 215 Classroom Management and Guidance 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for management of early educational classrooms, and implementation of developmentally appropriate practice and guidance for children from birth to age eight. Prerequisites: ECE 145 and EDU 105 (minimum grade C for both)

ECE 220 Preschool and School Age Environments 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on concepts, techniques, and educational theories for teaching preschool and school age children. Topics include: learning through play, promoting growth and development, classroom management, and developmentally-appropriate practice. Students spend three hours per week in a preschool setting.

Prerequisites: ECE 180 (minimum grade C)

ECE 230 Administration and Leadership in Early Childhood Education

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on organizing, operating, and managing child care facilities and family child care homes. Topics include: licensing requirements, record keeping, budgeting, working with staff and parents, team building, resolving conflicts, and other leadership skills.

Prerequisites: ECE 220 (minimum grade C)

ECE 290 Student Teaching in Early Childhood Education 3 Credits. 1 Lecture Hour. 14 Lab Hours.

Students spend a minimum of 14 hours per week in a supervised student teaching experience in an approved early childhood care/ education setting. Students must prepare a professional portfolio. Placement settings should be accredited or meet requirements for Ohio Step Up To Quality Level 3, and serve culturally, linguistically, and socio-economically diverse student populations.

Prerequisites: ECE 220 (minimum grade C) and ECE Program Chair consent

ECE 298 Second Year Special Topics in Early Child Care Education

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Early Child Care Education, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

ECE 299 Second Year Independent Project in Early Child Care Education

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Early Child Care Education that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Early Child Care Education faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section



Courses

ECO 105 Principles of Microeconomics 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of basic concepts of microeconomics. Topics include: supply and demand, equilibrium processes, consumer choice, firm pricing and output behavior, industry structure, government antitrust regulation, externalities, economic welfare, and income distribution.

Prerequisites: AFL 085 and AFM 092 (minimum grade C for both) or appropriate placement test scores

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ECO 110 Principles of Macroeconomics 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of the economic macro-system. Topics include: analysis of inflation and unemployment, government monetary and fiscal policy, aggregate income analysis, consumption, savings and investment, long run growth policies and budget deficits, foreign trade flows, and exchange rate polices.

Prerequisites: AFL 085 and AFM 092 (minimum grade C for both) or appropriate placement test scores

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ECO 198 First Year Special Topics in Economics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Economics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ECO 199 First Year Independent Project in Economics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Economics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Economics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ECO 298 Second Year Special Topics in Economics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Economics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ECO 299 Second Year Independent Project in Economics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Economics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Economics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section



Courses

EDU 105 Introduction to Education

3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to the teaching profession. Topics include: purposes of schools in society; and knowledge, dispositions, and performance required to be an effective teacher.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

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Ohio Career-Technical Assurance Guide Approved

EDU 110 Educational Technology

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on using educational technology as an instructional resource. Topics include: types and uses of software, selecting technologies for achieving curricular goals, and aligning electronic media production with instructional goals.

Prerequisites: IM 105, and AFL 085 (minimum grade C) or appropriate placement test score

EDU 198 First Year Special Topics in Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Education, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

EDU 199 First Year Independent Project: EDU 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Education that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Early Child Care Education faculty.

Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

EDU 200 Individuals with Exceptionalities 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for working with children and youth with exceptionalities, in varied educational and community settings. Topics include: identifying developmental characteristics for physical, cognitive, and social development disabilities; adapting learning environments; giftedness; legal issues; and community resources.

Prerequisites: EDU 105 (minimum grade C) Ohio Transfer Assurance Guide Approved

EDU 210 Learning in Childhood

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on major theories of human development and learning. Topics include: motivation, instructional strategies, assessment, similarities and differences in learners, and other factors affecting student learning and development.

Prerequisites: PSY 110

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EDU 298 Second Year Special Topics in Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Education, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

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EDU 299 Second Year Independent Project in Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Education that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Early Child Care Education faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

EET

Courses

EET 100 Introduction to Electrical Engineering Technology 2 Credits. 1 Lecture Hour. 2 Lab Hours.

An introduction to concepts and measuring skills for the electronics field. Topics include: current, voltage, power, Ohm's law, series circuits, meter reading, software simulation use, and circuit construction.

Prerequisites: AFM 092 or appropriate placement test score

EET 101 Electronic Fundamentals 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on electrical fundamentals for non-electrical majors. Topics include: DC and AC circuit theory, electrical motors and controls, electromagnetic devices, and transformers.

Prerequisites: AFM 094 or MAT 120, and AFL 085, or appropriate placement test scores

EET 121 Digital Systems 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on analyzing, designing, and troubleshooting digital logic circuits. Topics include: basic gates and programmable logic devices (PLDs); number systems and codes; Boolean algebra; circuit simplification; and functions of logic circuits, latches, flip-flops, counters, timers, and memory.

Prerequisites: EET 131, and MAT 121 (minimum grade C) or appropriate placement test score

EET 122 Digital Systems 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of EET 121. Topics include: counter design and cascading, shift registers, PLD applications, microprocessor registers, input/output (I/O), busses, direct memory access (DMA), memory expansion, and assembly language programming.

Prerequisites: EET 121

EET 131 Circuit Analysis 1

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on DC electric circuits. Topics include: current, voltage, resistance, and power; laws applied to series, parallel, and series-parallel circuits; Thevenin's, Superposition, and Norton's theorems; steady state and transient behavior of capacitive and inductive devices; and magnetic properties.

Prerequisites: MAT 121 (minimum grade C) or appropriate placement test score

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EET 132 Circuit Analysis 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of EET 131. Topics include: sinusoidal wave characteristics; complex numbers; phasors; transformers; RC, RL, and RLC networks; filter networks; three-phase and poly-phase systems; and power factor analysis.

Prerequisites: EET 131, and MAT 125 (minimum grade C) or appropriate placement test score

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EET 191 Part-Time Cooperative Education 1: Electronics Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: None

EET 192 Part-Time Cooperative Education 2: Electronics Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 191

EET 193 Part-Time Cooperative Education 3: Electronics Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 192

EET 194 Part-Time Cooperative Education 4: Electronics Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: EET 193

EET 195 Part-Time Cooperative Education 5: Electronics Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 194

EET 196 Part-Time Cooperative Education 6: Electronics Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 195

EET 198 First Year Special Topics in Electronics Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Electronics Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

EET 199 First Year Independent Project in Electronics Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Electronics Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Electronics Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

EET 291 Full-Time Cooperative Education 1: Electronics Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

EET 292 Full-Time Cooperative Education 2: Electronics Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 291

EET 293 Full-Time Cooperative Education 3: Electronics Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 292

EET 294 Internship 1: Electronics Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 131 and CIT 190

EET 295 Internship 2: Electronics Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EET 294

EET 298 Second Year Special Topics in Electronics Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Electronics Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

EET 299 Second Year Independent Project in Electronics Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Electronics Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Electronics Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

EMET

Courses

EMET 115 Residential Lighting

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamentals of residential lighting. Topics include: safe use of tooling and ladders, removing and installing lamps, identifying commonly-used light fixtures and bulb types, and technician professional demeanor.

Prerequisites: AFL 085, and AFM 094 or MAT 120, or appropriate placement test scores

EMET 120 Residential Weatherization

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamental concepts related to the building envelope, or the structure and shell of a house. Topics include: insulation, windows and doors, HVAC systems, energy use of lighting and appliances, and weatherization terminology.

Prerequisites: AFL 085, and AFM 094 or MAT 120, or appropriate placement test scores

EMET 125 Commercial Lighting

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamentals of commercial lighting. Topics include: safe use of tooling, ladders, and lifts; removing and installing lamps for existing light fixtures (but not replacing the light fixture or ballast); auditing lamps; identifying light fixtures; removing fixture covers; and replacing lamps.

Prerequisites: AFL 085, and AFM 094 or MAT 120, or appropriate placement test scores

EMET 150 Introduction to Controls and Robotics

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on operation and use of robots in manufacturing applications. Topics include: programmable robotics, flow charting, logic controllers, motors, control language, motion, and quality assurance.

Prerequisites: AFL 085, and AFM 094 or MAT 120, or appropriate placement test scores

EMET 180 Process Instrumentation

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on process instrumentation theory and applications. Topics include: principles and practices of measurement and control of temperature, pressure, flow, level, and analytical quantities; and data acquisition for process instruments and controls.

Prerequisites: EMET 140 and EET 131 (minimum grade C for both)

EMET 191 Part-Time Cooperative Education 1: Electro-Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

EMET 192 Part-Time Cooperative Education 2: Electro-Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 191

EMET 193 Part-Time Cooperative Education 3: Electro-Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 192

EMET 194 Part-Time Cooperative Education 4: Electro-Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 193

EMET 195 Part-Time Cooperative Education 5: Electro-Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: EMET 194

EMET 196 Part-Time Cooperative Education 6: Electro-Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 195

EMET 198 First Year Special Topics in Electro-Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Electro-Mechanical Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

EMET 199 First Year Independent Project in Electro-Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Electro-Mechanical Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Electro-Mechanical Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

EMET 210 Energy Efficiency and Audits 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on concepts related to energy consumption. Topics include: conducting energy audits for residential, commercial, and industrial locations; conserving energy; reducing energy consumption; and applying renewable energies.

Prerequisites: None

EMET 225 Solar and Renewable Energy

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on planning, installing, and maintaining solar and renewable energy devices. Topics include: photovoltaic electrical systems, solar thermal systems, fuel cell technology, and wind turbine technology. Prerequisites: EMET 210 (minimum grade C)

EMET 230 Fuel Cells and Wind Devices

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on planning, installing, and maintaining alternative energy sources. Topics include: converting chemical energy to electricity; fuel cell components, power efficiencies, and applications; electrolysis; and wind turbine components.

Prerequisites: EMET 210

EMET 240 Programmable Logic Controllers, Motors, Motor Controls, and Kinematics

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on programmable logic controllers, motors, and variable speed drives and mechanisms. Topics include: operating, troubleshooting, and controlling circuits; calculating speed, torque, horsepower, and efficiency; and machine kinematics.

Prerequisites: EET 132 (minimum grade C)

Cincinnati State

EMET 241 Building Automation 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of building automation systems and commercial HVAC/R systems. Topics include: system components, building automation and control theory, psychometrics, air and water systems, boilers, chillers, lighting, thermostats, pumps, PLC, and motor controls.

Prerequisites: EET 132 Corequisites: EMET 240 Instructor Consent Required

EMET 242 Building Automation 2

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of EMET 241. Topics include: control methods, HVAC scheduling, alarm categories and data logs, control of building HVAC mechanical systems, network fundamentals, OSI model, IP protocol, network signal transmission and protocols, and controller programming.

Prerequisites: EMET 241

EMET 245 Laser 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the operational theory and safe use of lasers. Topics include: properties of laser light, elements of the laser, laser classifications, structure of the eye, and hazards associated with laser light.

Prerequisites: EMET 150 (minimum grade C) and MAT 121 (minimum grade C) or appropriate placement test score

EMET 246 Laser 2

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of EMET 245, covering optical elements and types of industrial lasers used in photonics applications. Topics include: lenses, mirrors, prisms, laser modulators and Q-switches, optical power, energy measurements, and applying lasers for advanced manufacturing.

Prerequisites: EMET 245 (minimum grade C)

EMET 270 Robotics and Servomechanisms 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on theory and applications of robotics and servomechanisms. Topics include: analyzing industrial robotics applications in automated manufacturing environments; programming and operating robots; transducers, proportional, proportional-integral, and proportional-integral-derivative positional control systems; and closed-loop controls. Prerequisites: EET 132 (minimum grade C)

EMET 275 Electric Drive Mechanisms

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on electric drive systems used in electric vehicles and stationary power systems. Topics include: power and energy measurement, energy storage, battery monitoring, motor drives, control electronics and instrumentation, power transmission, and electrical safety devices.

Prerequisites: EMET 240 (minimum grade C)

EMET 291 Full-Time Cooperative Education 1: Electro-Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

EMET 292 Full-Time Cooperative Education 2: Electro-Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 291

EMET 293 Full-Time Cooperative Education 3: Electro-Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 292

EMET 294 Internship 1: Electro-Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 140

EMET 295 Internship 2: Electro-Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 294

EMET 298 Second Year Special Topics in Electro-Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Electro-Mechanical Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

EMET 299 Second Year Independent Project in Electro-Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Electro-Mechanical Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Electro-Mechanical Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

EMS

Courses

EMS 100 CPR and First Aid for the Health Care Professional 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on life support and first aid skills. Topics include: oneand two-rescuer CPR and AED for adults, children, and infants; barrier devices; and resuscitator bags. Students who pass the course receive an American Heart Association CPR card for the Health Care Professional and First Aid card.

Prerequisites: None

EMS 103 Emergency Medical Responder Theory and Practice 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on how to provide immediate care for life-threatening injuries and illnesses, using the curriculum approved by the Ohio Department of Public Safety, Division of EMS. Students who pass the course are eligible for the NREMT certification exam.

Prerequisites: AFL 085 or appropriate placement test score

EMS 105 Emergency Medical Responder Refresher 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course that provides Certified Emergency Medical Responders with a review of skills for providing immediate care for life-threatening injuries and illnesses. The course incorporates continuing education/recertification standards of the Ohio Department of Public Safety, Division of EMS.

Prerequisites: EMS 103 or current EMR certification

EMS 110 Emergency Medical Technician Theory and Practice 7 Credits. 5 Lecture Hours. 4 Lab Hours.

A course on assessment, care, and transportation of the ill or injured patient, using the curriculum approved by the Ohio Department of Public Safety, Division of EMS. Students who pass the course are eligible for the National Registry of Emergency Medical Technicians (NREMT) certification exam.

Prerequisites: AFL 085 or appropriate placement test score

EMS 115 Emergency Medical Technician Refresher 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course that provides Certified Emergency Medical Technicians with a review of skills for assessment, care, and transportation of the ill or injured patient. The course incorporates continuing education/recertification standards of the Ohio Department of Public Safety, Division of EMS.

Prerequisites: EMS 110 or current EMT certification

EMS 120 Paramedic Anatomy and Physiology 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the structure and function of the human body. Topics include: medical terminology, cells, tissues, and human organ systems. Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

EMS 180 Emergency Medical Technician Field Experience Practicum

2 Credits. 0 Lecture Hour. 8 Lab Hours.

Students who are certified EMTs gain unpaid work experience with a fire or emergency medical services department prior to entering the EMT-Paramedic Certificate program.

Prerequisites: EMS 110 and Ohio EMT certification

EMS 198 First Year Special Topics in Emergency Medical Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Emergency Medical Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

EMS 199 First Year Independent Project in Emergency Medical Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Emergency Medical Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Emergency Medical Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

EMS 200 Advanced Cardiac Life Support Provider Theory and Practice

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on knowledge and skills for evaluating and managing the first 10 minutes of an episode of ventricular fibrillation/ventricular tachycardia experienced by an adult. Students must have completed or be enrolled in technical courses for Paramedic, Nursing, or Respiratory Technology.

Prerequisites: Instructor consent Instructor Consent Required

EMS 205 Pediatric Advanced Life Support Theory and Practice 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on knowledge and skills for providing advanced life support care for an infant or child during the first 10 minutes of resuscitation efforts. Students must have completed or be enrolled in technical courses for Paramedic, Nursing or Respiratory Technology.

Prerequisites: Instructor consent Instructor Consent Required

EMS 211 Paramedic 1

7 Credits. 7 Lecture Hours. 0 Lab Hour.

A course on knowledge and skills needed by an Emergency Medical Technician to provide advanced life support care of the ill or injured patient. The curriculum follows guidelines approved by the Ohio Department of Public Safety, Division of EMS, and meets terminal objectives for the entry-level paramedic as outlined in the National Emergency Medical Services Educational Standards.

Prerequisites: EMS 110 and EMS 120 (minimum grade of C for both)

EMS 212 Paramedic 2

6 Credits. 6 Lecture Hours. 0 Lab Hour.

A continuation of EMS 211, with ongoing study of the knowledge and skills needed for advanced life support care of the ill or injured patient. The curriculum follows guidelines approved by the Ohio Department of Public Safety, Division of EMS, and meets terminal objectives for the entry-level paramedic.

Prerequisites: EMS 211

EMS 213 Paramedic 3

6 Credits. 6 Lecture Hours. 0 Lab Hour.

A continuation of EMS 212, with ongoing study of the knowledge and skills needed for advanced life support care of the ill or injured patient. The curriculum follows guidelines approved by the Ohio Department of Public Safety, Division of EMS, and meets terminal objectives for the entry-level paramedic.

Prerequisites: EMS 212

EMS 215 Paramedic Refresher

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course that provides Certified Paramedics with a review of skills for advanced life support care of the ill or injured patient. The course incorporates continuing education/recertification standards of the Ohio Department of Public Safety, Division of EMS.

Prerequisites: EMS 213 or current Paramedic certification

Instructor Consent Required

EMS 220 Emergency Medical Services Instructor Theory and Practice

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on techniques for teaching adult learners the knowledge and skills required for the Emergency Medical Services field, using the curriculum approved by the Ohio Department of Public Safety, Division of EMS. Students participate in supervised teaching experiences.

Prerequisites: Instructor consent Instructor Consent Required

EMS 221 Paramedic 1 Lab

1 Credit. 0 Lecture Hour. 3 Lab Hours.

A laboratory course that accompanies EMS 211, covering skills and interventions needed to properly assess and manage the ill or injured patient.

Prerequisites: None

Corequisites: EMS-211: Paramedic 1

EMS 222 Paramedic 2 Lab

1 Credit. 0 Lecture Hour. 3 Lab Hours.

A laboratory course that accompanies EMS 212, covering ongoing acquisition of skills and interventions needed to properly assess and manage the ill or injured patient.

Prerequisites: EMS 221 Corequisites: EMS 212: Paramedic 2

EMS 223 Paramedic 3 Lab

1 Credit. 0 Lecture Hour. 3 Lab Hours.

A laboratory course that accompanies EMS 213, covering ongoing acquisition of skills and interventions needed to properly assess and manage the ill or injured patient.

Prerequisites: EMS 222 (minimum grade C). Corequisites: EMS 213: Paramedic 3

EMS 231 Paramedic 1 Practicum

2 Credits. 1 Lecture Hour. 9 Lab Hours.

Students refine their patient assessment and management skills under the direct supervision of a clinical or internship preceptor, in the hospital clinical setting and field internship setting. Students must complete designated hours and skills.

Prerequisites: None

Corequisites: EMS-221: Paramedic 1 Lab

EMS 232 Paramedic 2 Practicum

3 Credits. 1 Lecture Hour. 11 Lab Hours.

Students refine their patient assessment and management skills under the direct supervision of a clinical and/or internship preceptor, in the hospital clinical setting and field internship setting. Students must complete designated hours and skills.

Prerequisites: EMS 231 (minimum grade of C) Corequisites: EMS 222: Paramedic 2 Lab

EMS 233 Paramedic 3 Practicum

3 Credits. 1 Lecture Hour. 11 Lab Hours.

Students refine their patient assessment and management skills under the direct supervision of a clinical and/or internship preceptor, in the hospital clinical setting and field internship setting. Students must complete designated hours and skills.

Prerequisites: EMS 232 (minimum grade C) Corequisites: EMS 223: Paramedic 3 Lab

EMS 298 Second Year Special Topics in Emergency Medical Technology

1-9 Credits, 0 Lecture Hour, 0 Lab Hour,

A course on selected topics related to Emergency Medical Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

EMS 299 Second Year Independent Project in Emergency Medical Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Emergency Medical Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Emergency Medical Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

ENG

Courses

ENG 100 English Principles: Grammar and Structure 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A comprehensive review of writing mechanics for professional communication. Topics include: grammar, punctuation, word usage, style, proofreading, and techniques for writing and revising effective sentences.

Prerequisites: None

ENG 101 English Composition 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to college writing focusing on understanding the writing process. Topics include: identifying audiences; developing a strong thesis; providing sufficient evidence for claims; and writing essays with grammatical, mechanical, and stylistic correctness.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

Ohio Transfer Module Approved

ENG 101A Intensive English Composition 1 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A lab-supported introduction to college writing with additional practice for understanding the reading and writing process. Topics include: identifying audiences; developing a strong thesis; providing sufficient evidence for claims; and writing essays with grammatical, mechanical, and stylistic correctness. Lab portion of course is conducted in a computer-aided classroom.

Prerequisites: AFL 080 (minimum grade C) or appropriate test score Ohio Transfer Module Approved

ENG 102 English Composition 2: Contemporary Issues 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of ENG 101. Topics include: critical reasoning; argumentation; the research process and the research paper; and reading, synthesizing, and responding critically to policy-driven research.

Prerequisites: ENG 101 Ohio Transfer Module Approved

ENG 103 English Composition 2: Writing about Literature 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of ENG 101. Topics include: critical reading; argumentation; the research process and the research paper; and reading, synthesizing, and responding critically to literature.

Prerequisites: ENG 101 Ohio Transfer Module Approved

ENG 104 English Composition 2: Technical Communication 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of ENG 101. Topics include: audience analysis; planning, preparing, and revising technical and professional documents used for reference, persuasion, or instruction; using and reporting on research; and integrating visuals with text.

Prerequisites: ENG 101, and 8 credit hours in technical courses

Ohio Transfer Module Approved

ENG 105 English Composition 2: Business Communication 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of ENG 101. Topics include: planning, preparing, and revising business documents such as formal and informal business letters, emails, proposals, and reports; and using and reporting on research.

Prerequisites: ENG 101 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

ENG 131 Creative Writing: Poetry 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A workshop-oriented poetry writing course. Topics include: the invention process, revision, poetic form, and critical response to works of literature and student work.

Prerequisites: 6 Credit Hours of English Composition

ENG 132 Creative Writing: Fiction 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A workshop-oriented fiction writing course. Topics include: the invention process, revision, form of fiction, and critical response to works of literature and student work.

Prerequisites: 6 credit hours of English Composition

ENG 134 Creative Writing: Writing for Children 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A workshop-oriented course on writing picture books, chapter books, and middle grade novels. Topics include: the invention process, revision, form of children's literature, and critical response to works of literature and student work.

Prerequisites: 6 credit hours of English Composition

ENG 198 First Year Special Topics in English 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to English, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ENG 199 First Year Independent Project in English 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to English that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by English faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ENG 205 Scriptwriting: Short

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing scripts for short form electronic media messages such as commercials and public service announcements. Topics include: analyzing audiences and products; applying basic concepts of marketing; conducting research; preparing copy platforms, scripts, and storyboards; and persuasively presenting concepts. Prerequisites: 6 credits of English Composition (minimum grade C)

ENG 210 Scriptwriting: Long

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing scripts for long form electronic media messages such as instructional and promotional video and documentaries. Topics include: analyzing audiences and products; conducting research; preparing documentation, scripts, and storyboards; and persuasively presenting concepts.

Prerequisites: 6 credits of English Composition (minimum grade C)

ENG 215 Copywriting

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing promotional messages for print and online distribution. Topics include: analyzing audiences and products, conducting research, developing concepts, preparing copy platforms, selecting writing styles and formats, and designing materials.

Prerequisites: 6 credits of English Composition (minimum grade C)

ENG 230 Writing Online Content

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing content for websites and web-supported publishing such as blogs and e-newsletters. Topics include: analyzing audiences and goals, choosing writing styles, creating and revising content, and applying best practices for online and digital document design.

Prerequisites: 6 credits of English Composition (minimum grade C)

ENG 298 Second Year Special Topics in English 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to English, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ENG 299 Second Year Independent Project in English 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to English that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by English faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ESET

Courses

ESET 220 Microprocessor Systems

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on designing, programming, and troubleshooting microprocessor systems and applications. Topics include: assembly language programming, interrupt and polled input/output (I/O), interrupt service routines, parallel ports, timer functions, serial interfaces, analog-to-digital (A/D) converters, and external hardware interfaces. Prerequisites: EET 122

ESET 251 Electronics

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on semiconductor and amplifier theory and application. Topics include: diode circuits and basic power supplies; bipolar transistor, field-effect transistor (FET), thyristor, and operational amplifier theory; inverters; circuit construction; and troubleshooting. Prerequisites: EET 132

ESET 290 Electronic Systems Engineering Technology Capstone Project

4 Credits. 2 Lecture Hours. 4 Lab Hours.

Students design a system using analog and digital electronics concepts, and prepare and deliver a professional presentation of their completed project. Topics include: design theory, feasibility study, engineering economics, and presentation skills.

Prerequisites: EET 122 and ESET 251

ESL

Courses

ESL 051 English as a Second Language Level 1 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course that integrates English skills including reading, writing, grammar, speaking, and listening comprehension. Topics include: American culture, cross-cultural communication, and the immigrant experience.

Prerequisites: None

ESL 052 English as a Second Language Level 2 4 Credits. 0 Lecture Hour. 0 Lab Hour.

A continuation of ESL 051. Topics include: American culture, crosscultural communication, the immigrant experience, and current events. Prerequisites: ESL 051 (minimum grade C) or appropriate placement test score

ESL 055 English as a Second Language: Grammar 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for non-native speakers on English grammar skills. Topics include: verb tenses, count and non-count nouns, active and passive voice, and grammatical articles.

Prerequisites: None

ESL 060 English as a Second Language: Pronunciation 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for non-native speakers on pronunciation of standard American English. Topics include: stress, rhythm, intonation, vocabulary, idioms, cross-cultural communication, and coping strategies.

Prerequisites: None

ESL 198 First Year Special Topics in English as a Second Language

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to English as a Second Language, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

ESL 199 First Year Independent Project in English as a Second Language

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to English as a Second Language that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by English as a Second Language faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

ESL 298 Second Year Special Topics in English as a Second Language

1-9 Credits, 0 Lecture Hour, 0 Lab Hour,

A course on selected topics related to English as a Second Language, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

ESL 299 Second Year Independent Project in English as a Second Language

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to English as a Second Language that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by English as a Second Language faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

ET

Courses

ET 100 Engineering and Science Technology Career Exploration Seminar

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using research and personal reflection to develop a strong foundation for selecting an academic program/major and planning a career related to Engineering and Science Technologies. Topics include: analyzing interests, abilities, and values; reviewing academic and personal requirements for related programs/majors; and examining career outcomes including salary, job availability, advancement opportunities, and other factors.

Prerequisites: None

EVS

Courses

EVS 110 Environmental Science: Conservation and Cleanup 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on environmental science as it affects human activity and the environment. Topics include: drinking water and wastewater treatment, air pollution, energy, conservation, solid and hazardous waste management, and risk assessment. Students provide transportation to off-campus field trips.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved 274

EVS 120 Environmental Geology 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on the relationship of applied geology to the human environment. Topics include: plate tectonics, soils, groundwater and surface water, natural disasters and glacial geology, and resource protection from contamination. Students provide transportation to offcampus field trips.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Module Approved

EVS 130 Environmental Science: Ecology and Ecosystems 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on environmental science and ecology. Topics include: types of ecosystems and how they function, elementary soil science, biodiversity, and population growth and sustainability. Students provide transportation to off-campus field trips.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Module Approved

Courses

EVT 105 Environmental Sampling 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on sampling requirements and techniques. Topics include: sampling groundwater, surface water, drums, sediments, soil, and air; site assessment; and field testing. Students provide transportation to off-campus field trips. Students who complete the course successfully earn a USEPA certificate.

Prerequisites: AFL 085 and AFM 092 or appropriate placement test

EVT 115 OSHA 40-Hour Course

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on the OSHA-specific requirements under 29 CFR 1910.120 for 40-Hour Hazardous Waste Site Training. Topics include: avoiding injury on a hazardous waste site, and basic concepts for health and safety programs. Students who complete the course successfully earn a certificate.

Prerequisites: AFL 085 and AFM 092 or appropriate placement test

Instructor Consent Required

EVT 125 Restoration Ecology: Sustainable Sites 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on environmental design principles and sustainable development. Topics include: federal, state, and local issues and standards; and managing introduced, exotic, and invasive species. Students provide transportation to off-campus field trips.

Prerequisites: EVS 110 or EVS 130

EVT 135 Restoration Ecology: Rain Gardens 3 Credits, 2 Lecture Hours, 2 Lab Hours,

A course on rain garden design and construction techniques that harvest rain water from local watersheds. Topics include: baseline analysis, site preparation, plant selection, and study of components in various ecoregions. Students provide transportation to off-campus field

Prerequisites: EVS 110 or EVS 130

EVT 140 Environmental Regulations and Permits 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on federal, state, and local environmental laws with emphasis on related computer concepts and applications. Topics include: TSCA, FIFRA, OSHA, CAA, CWA, SDWA, CERCLA, and RCRA.

Prerequisites: EVS 110 and (ENG 101 or ENQ REQC)

EVT 145 Restoration Ecology: Native Vegetation 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on native trees, shrubs, and vines that have commercial value for sustainable use. Topics include: proven landscape species, their uses in the tri-state area, and invasive species of various ecoregions. Students provide transportation to off-campus field trips. Prerequisites: EVS 110 or EVS 130

EVT 150 Environmental Chemistry 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on organic chemistry and chemical principles of environmental systems. Topics include: nomenclature, geochemistry, atmospheric chemistry, organic and inorganic air pollutants, toxicological chemistry, resources, energy, and analysis of environmental samples using chemical instrumentation.

Prerequisites: CHE 110 or CHE 121

EVT 155 Site Mapping and GIS 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on mapping techniques for the environmental field. Topics include: map concepts, coordinate systems, elevation contours, and terrain modeling. Course activities include manual drafting, basic principles of surveying, and an introduction to CAD and GIS software. Prerequisites: MAT 125 or MAT 151 or appropriate placement test scores

EVT 158 Fundamentals of Industrial Hygiene 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on techniques for recognizing, evaluating, and controlling health and safety hazards in the workplace. Topics include: radiation safety, noise, solvents, biological hazards, and video display terminal (VDT) hazards.

Prerequisites: EVS 110

EVT 160 Solid and Hazardous Waste Management 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for solid and hazardous waste disposal facilities. Topics include: waste minimization, composting, recycling, and landfilling; principles and practices for storage, transport, treatment, and disposal of hazardous wastes; regulations and permits; and emerging technologies. Students provide transportation to offcampus field trips.

Prerequisites: EVS 110, and CHE 110 or CHE 121

EVT 165 Calculations for Water Operators 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on mathematical applications for water treatment plant processes including water sources and storage, coagulation and flocculation, sedimentation, filtration, chlorination, fluoridation, and softening. Topics include applied volume, flow, and velocity; chemical dosage; loading rates; detention and retention; and pumping. Prerequisites: EVS 110 and MAT 125 or MAT 151 or appropriate placement test scores

EVT 166 Calculations for Wastewater Operators 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on calculations for wastewater treatment applications. Topics include: volumes, flow, and velocity; conversions; pumping and loading rates; F/M ratio; sludge age; MCRT; and efficiency.

Prerequisites: EVS 110 and MAT 125 or MAT 151 or appropriate placement test scores

EVT 168 Radiation Safety

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on radiation safety and protection. Topics include: the interaction of radiation with matter, biological effects, types of radioactivity, dosimetry, shielding calculations, and radiation measurements.

Prerequisites: EVS 110

EVT 170 Water and Wastewater Treatment and Analysis 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on scientific and engineering principles for water quality control. Topics include: environmental microbiology; bioremediation; microbes as indicators of pollution; and physical, chemical, and biological analysis. Students provide transportation to off-campus field trips.

Prerequisites: EVS 110, and CHE 110 or CHE 121

EVT 171 Environmental Mountain Ecology 1 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on principles of ecology and pollutant dispersion as they pertain to mountain ecosystems, and the environmental impact of human activities on mountain ecosystems.

Prerequisites: EVT 105 and EVS 120

EVT 172 Environmental Mountain Ecology 2 3 Credits. 1 Lecture Hour. 6 Lab Hours.

A continuation of EVT 171. Students participate in field experience that includes a trip to the mountainous regions of the western United States. Students pay for travel-related expenses.

Prerequisites: EVT 171 Instructor Consent Required

EVT 175 Watershed Management

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing watershed action plans. Topics include: water quality monitoring, stream bank stabilization, flood management strategies, habitat restoration, and control of combined and sanitary sewer overflow. Students provide transportation to off-campus field trips

Prerequisites: EVT 105, and CHE 110 or CHE 121

EVT 180 Environmental Statistics

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on statistical methods used in environmental pollution monitoring. Topics include: computer concepts and applications emphasizing environmental data.

Prerequisites: EVS 110 and MAT 125 or MAT 151 or appropriate placement test scores

EVT 185 Supervisory Management in Environmental Fields 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on concepts and practices of management as they apply to the environmental field. Topics include: problem solving, communication skills, delegation and motivation, unions, and manageremployee relationships.

Prerequisites: EVS 110 and (ENG 101 or ENG REQC)

EVT 187 Materials Transportation Safety and Security 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on safety and security during the transport of hazardous substances. Topics include: Hazardous Materials Transportation Act, Resource Conservation and Recovery Act, Transportation Security Administration, aviation security, and shipping protocols. Students provide transportation to off-campus field trips.

Prerequisites: EVT 105

EVT 191 Part-Time Cooperative Education 1: Environmental Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

EVT 192 Part-Time Cooperative Education 2: Environmental Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 191

EVT 193 Part-Time Cooperative Education 3: Environmental Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: EVT 192

EVT 194 Part-Time Cooperative Education 4: Environmental Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 193

EVT 195 Part-Time Cooperative Education 5: Environmental Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 194

EVT 196 Part-Time Cooperative Education 6: Environmental Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 195

EVT 198 First Year Special Topics in Environmental Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Environmental Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or E

Prerequisites: Instructor Approval

EVT 199 First Year Independent Project in Environmental Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Environmental Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Environmental Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

EVT 210 Industrial Waste Treatment 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on the responsibilities of the industrial wastewater treatment plant operator. Topics include: the activated sludge process, physical-chemical treatment, instrumentation, industrial waste monitoring, waste treatment processes, and maintenance.

Prerequisites: EVT 170

EVT 215 Utilities Safety and Security 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on the safety and security of the utility systems in the United States in the event of natural disasters or terrorist or wartime attack. Topics include: protection of drinking water systems, wastewater treatment systems, and energy supplies.

Prerequisites: EVT 170

EVT 220 Air Pollution Control

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on monitoring permitting and control of air releases. Topics include: air quality management, health and environmental effects, indoor air pollution, pollen and mold counts, control and sampling equipment, stack testing, and data analysis. Students provide transportation to off-campus field trips.

Prerequisites: EVT 150

EVT 225 Environmental Mapping 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on mapping and resource inventory for the environmental field. Topics include: map projections, world coordinates, watershed delineation, GIS data analysis and queries, and remote sensing. Students use conventional surveying and GPS equipment for data collection, and computer mapping CAD and GIS software for data analysis.

Prerequisites: EVT 155

EVT 230 Treatment Technologies

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on principles and applications of mainstream treatment technologies used to prevent, monitor, and control pollution from industries and government facilities. Topics include: physical, chemical, thermal, and biological treatment methods. Students provide transportation to off-campus field trips.

Prerequisites: EVT 170

EVT 235 Stormwater Management

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on the infrastructure of stormwater control. Topics include: surface water hydrology, historical development of drainage control, FEMA and local flood design criteria and control methods, storm sewers, open channel, culvert conveyance, detention systems and calculations, and post-construction BMPs.

Prerequisites: EVT 225 and EVT 240

EVT 237 Environmental Impact of Weapons of Mass Destruction 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on understanding weapons of mass destruction and recovery following an attack. Topics include: chemical and biological warfare agents; radiation dispersal devices; and detection, decontamination, and disposal of these agents. Students provide transportation to off-campus field trips.

Prerequisites: EVT 105 and EVT 170

EVT 240 Fluid Mechanics

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on engineering properties of fluids including kinematics and dynamics, fluid flow, buoyancy, and stability. Topics include: Bernoulli's equation and the energy equation; Reynold's number; energy losses; and series, parallel, and open channel flow.

Prerequisites: MAT 126 or MAT 152 or appropriate placement test score

EVT 245 Operation of Water Treatment Plants

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on efficient operation of water treatment plants that helps students prepare for certification exams. Topics include: proper installation, inspection, operation, maintenance, repair, and management of water treatment plants; corrosion control; control of trihalomethanes; and water sample analysis.

Prerequisites: EVT 165

EVT 246 Operation of Wastewater Treatment Plants 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on efficient operation of wastewater treatment plants that helps students prepare for certification exams. Topics include: start-up, daily operations, interpretation of lab results, and possible approaches to solving operational problems.

Prerequisites: EVT 166

EVT 247 Advanced Sampling and Analysis 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on sampling equipment and methods used to evaluate hazards after natural disasters. Topics include: equipment and instruments used to detect biological and chemical warfare agents. Students provide transportation to off-campus field trips.

Prerequisites: EVT 105 and EVT 170

Cincinnati State

EVT 250 Water Collection and Distribution Systems 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on operating and controlling water delivery and wastewater collection systems. Topics include: gravity and pumped lines; storage and holding tanks; pumps; system monitoring, repair, and rehabilitation; water system depressurization; backflow prevention; metering; sewer overflows; and gaseous buildup.

Prerequisites: EVT 240

EVT 255 Stormwater Control Technologies 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on best practices in stormwater management including design, installation, construction, and maintenance. Topics include: porous pavements, subsurface infiltration, bioretention basins, wetlands, soil bioengineering, and cost effectiveness of methods. Students provide transportation to off-campus field trips.

Prerequisites: EVT 225

EVT 257 Environmental Risk Assessment 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course that utilizes risk assessment methods to evaluate and manage danger in the event of chemical, biological, or radiological exposure. Topics include: operational risk management approaches, and understanding toxicological values. Students provide transportation to off-campus field trips.

Prerequisites: EVT 160 and EVT 220

EVT 291 Full-Time Cooperative Education 1: Environmental Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

EVT 292 Full-Time Cooperative Education 2: Environmental Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 291

EVT 293 Full-Time Cooperative Education 3: Environmental Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 292

EVT 294 Internship 1: Environmental Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

EVT 295 Internship 2: Environmental Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EVT 294

EVT 298 Second Year Special Topics in Environmental Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Environmental Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

EVT 299 Second Year Independent Project in Environmental Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Environmental Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Environmental Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

FIN

Courses

FIN 100 Personal Finance

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on coordinated and realistic personal financial planning. Topics include: budgeting and tax planning, managing liquidity, personal loans, purchasing cars and homes, insurance and investing principles, and retirement and estate planning.

Prerequisites: None

FIN 120 Risk and Insurance

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of risk management and insurance for enterprises and individuals. Topics include: fundamentals of life, health, property, and liability insurance; and enterprise risk management for businesses.

Prerequisites: None

FIN 150 Business Finance

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on principles of financing business firms. Topics include: financial statement analysis, time value of money, management of cash flow, risk and return, and short and long-term sources of financing.

Prerequisites: ACC 101

FIN 175 Retirement and Employee Benefit Planning 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on developing retirement plans and employee benefit plans. Topics include: legislation that affects plan design; tax advantages and disadvantages of various retirement plans; and Social Security, Medicare, and employer-sponsored health and welfare plans.

Prerequisites: FIN 100

FIN 191 Part-Time Cooperative Education 1: Finance 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

FIN 192 Part-Time Cooperative Education 2: Finance 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 191

FIN 193 Part-Time Cooperative Education 3: Finance 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 192

FIN 194 Part-Time Cooperative Education 4: Finance 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 193

FIN 195 Part-Time Cooperative Education 5: Finance 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 194

FIN 196 Part-Time Cooperative Education 6: Finance 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 195

FIN 198 First Year Special Topics in Finance 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Finance, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

FIN 199 First Year Independent Project in Finance 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Finance that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Finance faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FIN 200 Investments

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on securities and the markets in which they are traded, and sources of financial information. Topics include: features and characteristics of financial instruments such as money market instruments, stocks, bonds, international securities, options, and futures contracts. This course is only offered online.

Prerequisites: FIN 100

FIN 290 Financial Planning Capstone

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Students apply knowledge and skills gained through the Financial Services degree or Financial Planning Certificate by analyzing case studies and creating a comprehensive financial plan.

Prerequisites: FIN 120, FIN 175, ACC 175, FIN 200

FIN 291 Full-Time Cooperative Education 1: Finance 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

FIN 292 Full-Time Cooperative Education 2: Finance 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 291

FIN 293 Full-Time Cooperative Education 3: Finance 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FIN 292

FIN 298 Second Year Special Topics in Finance 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Finance, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

FIN 299 Second Year Independent Project in Finance 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Finance that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Finance faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FRN

Courses

FRN 101 Elementary French 1

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on French language and culture that provides the foundation for understanding, speaking, reading, and writing French.

Prerequisites: None

FRN 102 Elementary French 2

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of FRN 101. Topics include: developing skills in understanding, speaking, reading, and writing French.

Prerequisites: FRN 101

FRN 198 First Year Special Topics in French 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to French, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

FRN 199 First Year Independent Project in French 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to French that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by French faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FRN 201 Intermediate French 1

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of FRN 102. Topics include: developing fluency in French grammar and syntax through reading short literary pieces, composition, and conversation.

Prerequisites: FRN 102

FRN 202 Intermediate French 2

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of FRN 201. Topics include: developing additional skills and fluency in French through reading short literary pieces, composition, and conversation.

Prerequisites: FRN 201

FRN 298 Second Year Special Topics in French 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to French, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

FRN 299 Second Year Independent Project in French 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to French that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by French faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FST

Courses

FST 101 Fire Cadet Fundamentals

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on fundamental concepts and skills that apply to the fire cadet. Topics include: safety procedures and equipment, self-discipline, fire ground principles, emergency communication and systems, and evolving technologies and trends in firefighting. Prerequisites: Student must pass physical agility test Instructor Consent Required

FST 103 Evolution of the Fire Service 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the growth of the fire service from its creation through the 21st century. Topics include: changes in suppression methods, building codes, and rescue techniques; administrative philosophies; and personnel behaviors.

Prerequisites: None

FST 105 Firefighter Physical Preparedness 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on preparing individuals for the rigors of firefighting, including balanced physical conditioning that incorporates all basic factors of fitness

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

Instructor Consent Required

FST 107 Home Safety

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on identifying common hazards that place individuals and families at risk for injury and/or crisis. Topics include: home, fire, and child safety; health hazards; severe weather safety; and driving and water safety.

Prerequisites: None

FST 108 Emotional Preparedness for Public Safety Professionals 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on dealing with emotions and stresses that result from caring for the sick, injured, and dying. Topics include: concepts and techniques from the fields of sociology, philosophy, religion, and health education

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 110 Portable Fire Extinguishers

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on fundamentals of fire and fire extinguishing. Topics include: elements that support a fire, and using equipment to efficiently extinguish Class A, B, and C type fires.

Prerequisites: None

FST 116 Fire Apparatus and Equipment Maintenance 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on operating, maintaining, and repairing internal combustion engines. Topics include: small gas power engines used in the fire service, daily inspections of fire apparatus and equipment, and preand post-run inspections of vehicles.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

280

FST 120 Fire Behavior and Combustion 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on theories and fundamentals of how and why fires start and spread, and how fires are controlled. Topics include: the chemistry of fire, combustion and heat transfer, stages of fire growth, toxic gases and smoke, and extinguishing agents.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 121 Fire Investigation 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamentals of proper fire scene interpretations. Topics include: recognizing origin location and cause, preserving evidence and documentation, scene security, motives of the fire setter, and types of fire causes.

Prerequisites: None

FST 123 Principles of Emergency Services

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fire protection as an industry. Topics include: philosophy and history of fire services, fire departments as part of local government, protection systems, regulations and laws, and introductory fire ground strategy and tactics.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 124 Fire and Emergency Services Administration 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on organization and management of a fire department. Topics include: the relationship of government agencies to the fire service, fire and emergency services, and ethics and leadership from the perspective of the company officer.

Prerequisites: FST 123

FST 126 Fire Protection Systems

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on design and operation of fire alarm systems. Topics include: water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 129 Fire Prevention

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamental concepts of fire prevention. Topics include: history, philosophy, organization, and operation of a fire prevention bureau; use and application of codes and standards; plan review; fire inspections; fire and life safety education; and fire investigation. Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 130 Volunteer Firefighter

1 Credit. 0 Lecture Hour. 3 Lab Hours.

A course on fundamentals for the volunteer firefighter, using the Ohio Department of Public Safety objectives for volunteer firefighter certification. Topics include: safety, fire behavior, personal protective equipment, ventilation, tools, ground ladders, water supply, and overhaul.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 131 Firefighter Professional 1

6 Credits. 4 Lecture Hours. 6 Lab Hours.

A course covering NFPA 1001 Firefighter 1 and 2 objectives. Topics include: ladders, personal protection clothing, self-contained breathing apparatus (SCBA), fire extinguishers, search and rescue, ropes and knots, and hoses and nozzles. Students must successfully complete FST 131 and FST 132 and earn a passing score on the state firefighter exam to obtain Ohio Firefighter II certification.

Prerequisites: AFL 085 or appropriate placement test score, and FST 101 and FST 105 and instructor consent Instructor Consent Required

FST 132 Firefighter Professional 2

5 Credits. 3 Lecture Hours. 6 Lab Hours.

A continuation of FST 131, covering NFPA 1001 Firefighter 1 and 2 objectives. Topics include: fire streams and foam, auto extrication, fire control, fire protection systems, and pre-incident surveys. Students must earn a passing score on the state firefighter exam to obtain Ohio Firefighter II certification. PROBOARD accreditation is available for interested students.

Prerequisites: FST 131 Instructor Consent Required

FST 133 Firefighter 1 Transition

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course for volunteer firefighters seeking the Firefighter 1 level, using the Ohio Department of Public Safety objectives for volunteer-to-Firefighter 1 certification. Topics include: safety, hoses and streams, fire extinguishers, ladders, ropes, ventilation, forcible entry, and live fire training.

Prerequisites: FST 130

FST 136 Emergency Vehicle Operator 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on safe driving practices while responding in emergency vehicles. Topics include: techniques for safe operation, post-collision analysis, and unsafe practices during emergency response. Students must have a valid driver's license.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

Instructor Consent Required

FST 141 Firefighter 1

7 Credits. 4 Lecture Hours. 6 Lab Hours.

A course covering NFPA 1001 Firefighter 1 objectives. Topics include: ladders, personal protection clothing, SCBA, fire extinguishers, search and rescue, ropes and knots, and hoses and nozzles. Students must successfully complete a state test to obtain Ohio Firefighter certification. PROBOARD accreditation is available for interested students.

Prerequisites: FST 100
FST 142 Firefighter 2

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of FST 141, covering NFPA 1001 Firefighter 2 objectives. Topics include: fire streams and foam, auto extrication, fire control, fire protection systems, and pre-incident surveys. Students must successfully complete a state test to obtain Ohio Firefighter certification. PROBOARD accreditation is available for interested students.

Prerequisites: FST 141

FST 145 Career Firefighter 1 & 2

11 Credits. 7 Lecture Hours. 12 Lab Hours.

A course covering NFPA 1001 Firefighter 1 and 2 objectives. Topics include ladders, personal protective clothing and equipment, fire extinguishers, search and rescue, fire streams, foam, fire control and auto extraction. PROBOARD accreditation is available for interested students. Students must pass the state test before Firefighter certification is awarded.

Prerequisites: FST 100

FST 153 Fire Service Technology Blueprint Reading 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on reading computer-generated drawings used in fire services. Topics include: interpreting architectural and civil engineering symbols and abbreviations; and understanding civil, architectural, electrical, mechanical, and fire protection drawings.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 158 Fire Alarm Basics

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on fundamentals of fire alarm systems. Topics include: system components, operation and application of systems, building codes, and regulatory standards.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 161 Fire Officer 1

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on preparing for the role of company officer, using NFPA 1021 Fire Officers Professional Qualifications Level 1 objectives. Topics include: human resource management, community and government relations, inspections, investigations, emergency service delivery, and safety. This course is delivered in an online format. Prerequisites: FST 142

FST 162 Fire Officer 2

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of FST 161, using standards defined for NFPA 1021 Fire Officers Professional Qualifications Level 2. This course is delivered in an online format.

Prerequisites: FST 161

FST 163 Fire Officer 3

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of FST 162, using standards defined for NFPA 1021 Fire Officers Professional Qualifications Level 3. This course is delivered in an online format.

Prerequisites: FST 162

FST 164 Occupational Health and Safety for Emergency Services 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on basic concepts of occupational health and safety related to emergency service organizations. Topics include: risk and hazard evaluation, and control procedures.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

FST 198 First Year Special Topics in Fire Service Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Fire Service Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

FST 199 First Year Independent Project in Fire Service Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Fire Service Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Fire Service Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FST 210 Crew Resource Management

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on effects of human error during fire ground operations, using concepts from commercial aviation that apply to fire services. Topics include: communication, teamwork, situational awareness, critical decision making, and decreasing injuries and deaths during firefighting. This course is delivered in an online format.

Prerequisites: FST 142 or FST 145

FST 218 Wildfire Behavior and Suppression

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on knowledge and skills needed to extinguish wildfires. Topics include: factors affecting the start and spread of wildfires, and recognizing potentially hazardous situations.

Prerequisites: FST 100

FST 222 Fire Investigation 2

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of FST 121. Topics include: rules and laws, fire scene analysis, fire behavior, evidence preservation, documentation, case preparation, and courtroom testimony.

Prerequisites: FST 121

FST 223 Principles of Fire and Emergency Services Safety and Survival

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the history and basic principles of the national firefighter life safety initiatives, focusing on the need for cultural change throughout the emergency services.

Prerequisites: FST 142 or FST 145

FST 225 Fire Protection Hydraulics and Water Supply 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on understanding principles of water for fire protection, and understanding principles of hydraulics used to analyze and overcome challenges of applying sufficient water for fire suppression.

Prerequisites: FST 142

FST 226 Building Construction for Fire Protection 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on building construction in relation to firefighting and life safety. Topics include: elements of construction and design, building inspection factors, pre-planning fire operations, and safe operations during emergencies.

Prerequisites: FST 141

FST 228 Legal Aspects of the Emergency Services 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on legal issues related to emergency services. Topics include: the American legal system; recent court decisions, events, and statutes; Americans with Disabilities Act; Family Medical Leave Act; Fair Labor Standards Act; and HIPAA.

Prerequisites: FST 100

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FST 229 Strategies and Tactics for Fire Suppression 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on principles of fire ground control using personnel, equipment, pre-incident planning, and extinguishing agents. Prerequisites: FST 142

FST 236 Fire Apparatus Operator

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on theory and operation of engines and pumpers used in firefighting. Topics include: equipment operation; troubleshooting; and demonstration and practice of fire ground water flow scenarios. Prerequisites: FST 142 or FST 145

FST 258 Rapid Assistance and Self-Rescue Operations 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on saving your own life or saving lives of other firefighters. Topics include: MAYDAY, fire ground safety, communications, self awareness, rapid entry team preparedness, and survival techniques. Prerequisites: FST 132

FST 265 Fire Service Instructor

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on techniques for teaching adult learners knowledge and skills required for the Fire Services field, using NFPA 1041 Instructor 1 and 2 objectives. Topics include: domains of learning, learning outcomes and objectives, classroom preparedness, student safety, and legal obligations. Students must have five years experience as a firefiahter.

Prerequisites: FST 142 and Instructor consent Instructor Consent Required

FST 268 Fire Safety Inspector

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fire safety inspection procedures and responsibilities, using NFPA 1031 objectives. Students who are members of an Ohio Fire Department may take the state exam for Fire Safety Inspector at the end of the course.

Prerequisites: FST 142

FST 294 Internship 1: Fire Service Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in an unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: FST 142 or FST 145 (minimum grade C for either) Instructor Consent Required

FST 298 Second Year Special Topics in Fire Service Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Fire Service Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

FST 299 Second Year Independent Projects in Fire Service **Technology**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Fire Service Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Fire Service Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FYE

Courses

FYE 100 College Survival Skills

1 Credit. 1 Lecture Hour. 0 Lab Hour.

An orientation to making a successful transition to college life. Topics include: study skills, time and financial management, netiquette, critical thinking, academic planning, goal setting, diversity, and campus resources. Students must complete one FYE course within the first 12 credits at Cincinnati State.

Prerequisites: College placement test scores must meet standard for placement into ENG 101

FYE 105 College Success Strategies

2 Credits, 2 Lecture Hours, 0 Lab Hour,

An orientation to college life with community building activities. Topics include: study skills; time, stress, and financial management; personal health and wellness; critical thinking; academic and financial planning; goal setting; campus resources; diversity; netiquette; emotional intelligence and interpersonal communication. Students must complete one FYE course within the first 12 credits at Cincinnati State. Prerequisites: None

FYE 110 Community College Experience 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A comprehensive orientation to college life with community building activities. Topics include: study skills; time, stress, and financial management; budgeting; personal health and wellness; critical thinking and emotional intelligence; educational and career planning; goal setting; campus resources; diversity; interpersonal communication; and netiquette. Students must complete one FYE course within the first 12 credits at Cincinnati State.

Prerequisites: None

FYE 198 First Year Special Topics in First Year Experience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to First Year Experience, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

FYE 199 First Year Independent Project in First Year Experience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to First Year Experience that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by First Year Experience faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

FYE 298 Second Year Special Topics in First Year Experience 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to First Year Experience, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

FYE 299 Second Year Independent Project in First Year Experience

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to First Year Experience that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by First Year Experience faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GAC

Courses

GAC 198 First Year Special Topics in Geriatric Activity Coordinator

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Geriatric Activity Coordinator, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

GAC 199 First Year Independent Project in Geriatric Activity Coordinator

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Geriatric Activity Coordinator that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Geriatric Activity Coordinator faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GAC 298 Second Year Special Topics in Geriatric Activity Coordinator

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Geriatric Activity Coordinator, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

GAC 299 Second Year Independent Project in Geriatric Activity Coordinator

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Geriatric Activity Coordinator that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Geriatric Activity Coordinator faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GEO

Courses

GEO 105 World Regional Geography: the Americas, Europe, an 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of characteristics and differences of major world regions. Topics include: cultural, economic, political, historical and physical characteristics of North America, Latin America, Europe, Russia, the Baltic States, and Australia/New Zealand.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

GEO 110 World Regional Geography: Asia, Africa, and the Middle East

3 Credits, 3 Lecture Hours, 0 Lab Hour,

Study of characteristics and differences of major world regions. Topics include: cultural, economic, political, historical, and physical characteristics of Asia and Africa, including the Middle East and Afghanistan.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

GEO 115 Cultural Geography

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of diverse human customs and world patterns of culture. Topics include: ethnicity, population practices, territoriality, the seeking of security and nourishment, resource use, and the commonalities among peoples.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

GEO 198 First Year Special Topics in Geography 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Geography, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

GEO 199 First Year Independent Project in Geography 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Geography that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Geography faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GEO 298 Second Year Special Topics in Geography 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Geography, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

GEO 299 Second Year Independent Project in Geography 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Geography that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Geography faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GIT

Courses

GIT 100 Introduction to Graphic Imaging Technology 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on evaluating printing processes. Topics include: lithography, flexography, screen, gravure, and digital-on-demand presses for print media; packaging options for advertising processes such as metal can, corrugated, and plastic packaging; and digital-on-demand presses for packaging.

Prerequisites: None

GIT 105 Ink and Substrates

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on physical characteristics, manufacturing processes, and print industry uses for ink and paper. Topics include: how ink components affect color, drying properties of ink, printing substrates, and cost factors related to ink and paper choices.

Prerequisites: None

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GIT 115 Adobe InDesign

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on using Adobe InDesign software to create and publish documents for print, web, or mobile devices. Topics include: master pages, styles, images, print production, optimized PDF files, and variable data.

Prerequisites: None

GIT 120 Digital Photography and Imaging 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on producing quality images with digital cameras. Topics include: lighting; color balance; exposure; retouching; and reproducing images for uses including web, digital output devices, and printing presses.

Prerequisites: None

GIT 130 Letterpress Printing

3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introduction to traditional methods of letterpress printing using a Heidelberg Platen press and a proofing press. Topics include: history of printing, basic typography, design and printing techniques using lead and hot metal type, and hand-carving linoleum blocks to make custom artwork.

Prerequisites: None

GIT 191 Part-Time Cooperative Education 1: Graphic Imaging **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MID 190

GIT 192 Part-Time Cooperative Education 2: Graphic Imaging **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GIT 191

GIT 193 Part-Time Cooperative Education 3: Graphic Imaging **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GIT 192

GIT 194 Part-Time Cooperative Education 4: Graphic Imaging **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: GIT 193

GIT 195 Part-Time Cooperative Education 5: Graphic Imaging **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GIT 194

GIT 196 Part-Time Cooperative Education 6: Graphic Imaging **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: GIT 195

GIT 198 First Year Special Topics in Graphic Imaging Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Graphics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

GIT 199 First Year Independent Project in Graphic Imaging **Technology**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Graphics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Graphics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GIT 200 Digital Imaging and Publishing

3 Credits. 1 Lecture Hour. 6 Lab Hours.

A course on digital printing and output methods. Topics include: digital print processes and equipment, variable data fundamentals, database applications, and emerging technologies. Students must attend tours of companies that use current printing and publishing technologies. Prerequisites: GIT 100 and GRD 120 and GRD 130

GIT 215 Applied 2D Graphics: Graphic Imaging Technology 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on using page layout, vector, and image editing software applications for high-end production processes. Topics include: file construction, resolution of files and devices, trapping techniques, retouching, preflighting, color separations, profiling, color correction, variable data, and proofing.

Prerequisites: GIT 115 and GRD 120 and GRD 130

GIT 220 Screen Printing

3 Credits. 1 Lecture Hour. 6 Lab Hours.

A course on fundamentals of operating manual and semi-automatic screen printing presses. Topics include: file preparation, frames, mesh, emulsions, inks and additives, and printing on varied substrates and odd-shaped objects.

Prerequisites: GIT 100 and GRD 120 and GRD 130

GIT 230 Print Media Workflow

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on determining printing job costs, emphasizing paper used in sheet-fed offset and flexographic printing. Topics include: cost factors, computer-assisted estimation and scheduling, file processing in a color-managed environment, and web-based job tracking.

Prerequisites: GIT 100 and GIT 105

GIT 240 Flexographic Printing Methods 3 Credits. 1 Lecture Hour. 6 Lab Hours.

A course on fundamental principles and practices of the flexographic printing industry. Topics include: artwork preparation, prepress, plates and platemaking, inks, substrates, tooling, presswork, and finishing operations unique to flexography.

Prerequisites: GIT 100 and GRD 120 and GRD 130

GIT 250 Offset Printing Methods

3 Credits. 1 Lecture Hour. 6 Lab Hours.

A course on high quality sheet-fed and web-fed offset printing and digital high-volume printing. Topics include: color consistency, controlling dot gain and slur, plugging halftones, maintaining ink and dampening systems, and using quality control production devices. Prerequisites: GIT 200

GIT 255 Graphic Imaging Production Processes 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on preparing art for professional printing processes. Topics include: survey of print processes such as lithography, flexography, gravure, and screen printing; file construction; design considerations; and standards for evaluating printed materials.

Prerequisites: GRD 215 and GRD 230

GIT 290 Graphic Imaging Technology Capstone 1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students complete activities that demonstrate their knowledge of concepts and techniques in Graphic Imaging Technology.

Prerequisites: Graphic Imaging Technology Program Chair consent,

and minimum 2.5 GPA Instructor Consent Required

GIT 291 Full-Time Cooperative Education 1: Graphic Imaging Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MID 190

GIT 292 Full-Time Cooperative Education 2: Graphic Imaging Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GIT 291

GIT 293 Full-Time Cooperative Education 3: Graphic Imaging Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GIT 292

GIT 298 Second Year Special Topics in Graphic Imaging Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Graphics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

GIT 299 Second Year Independent Project in Graphic Imaging Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Graphics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Graphics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

GRD

Courses

GRD 110 Beginning 2D Graphics

3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to concepts and techniques for digital design. Topics include: vector-based and raster-based graphics, emphasizing color and composition.

Prerequisites: MID 110 and ART 125 (minimum grade C for both)

GRD 120 Beginning 2D Graphics: Bitmap 3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to pixel-based design for multimedia applications. Topics include: principles for creating and manipulating images using Adobe Photoshop, understanding the benefits and limitations of raster-based design tools, and techniques for photo restoration and manipulation.

Prerequisites: ART 125 (minimum grade C)

GRD 130 Beginning 2D Graphics: Vector 3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to vector design for multimedia, emphasizing color and composition, and techniques for stylized and photorealistic illustration. Topics include: principles for creating images with Adobe Illustrator, identity design, layout, and line weight and quality.

Prerequisites: ART 125 (minimum grade C)

GRD 150 Design Concepts: Typography 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the use of typography as a design element in short-form and long-form applications. Topics include: typography as image, and anatomy of type.

Prerequisites: GRD 110, ENG 101 or ENG REQC (minimum grade C for both)

GRD 191 Part-Time Cooperative Education 1: Graphic Design 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

GRD 192 Part-Time Cooperative Education 2: Graphic Design 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 191

GRD 193 Part-Time Cooperative Education 3: Graphic Design 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 192

GRD 194 Part-Time Cooperative Education 4: Graphic Design 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: GRD 193

GRD 195 Part-Time Cooperative Education 5: Graphic Design 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 194

GRD 196 Part-Time Cooperative Education 6: Graphic Design 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 195

GRD 198 First Year Special Topics in Graphic Design 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Graphic Design, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

GRD 199 First Year Independent Project in Graphic Design 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Graphic Design that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Graphic Design faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

GRD 200 Graphic Design Portfolio Review

1 Credit. 1 Lecture Hour. 0 Lab Hour.

An assessment of skills required to enter upper-level courses in the Graphic Design program, including a technical skills exam and presenting a portfolio to a panel of evaluators. Students receive grades of Satisfactory or Unsatisfactory, and must pass the course to be eligible for cooperative education assignments. Those who do not pass may make one additional attempt.

Prerequisites: Graphic Design Program Chair consent Instructor Consent Required

GRD 210 Applied 2D Graphics: Audio/Video Production 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of GRD 110, focusing on creating 2D graphics for use in on-screen video applications.

Prerequisites: GRD 110 (minimum grade C)

GRD 215 Applied 2D Graphics: GRD 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of GRD 110, focusing on creating 2D graphics for print and graphic design applications.

Prerequisites: GRD 110 (minimum grade C)

GRD 220 Applied 2D Graphics: Web Design

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on applications of 2D graphics techniques for raster-based and vector-based software, focusing on creating 2D graphics for Web and multimedia applications.

Prerequisites: GRD 120 and GRD 130 and WEB 111 (minimum grade C for all)

GRD 230 Brand Identity Development

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the development of strong brand identity concepts and materials for products and organizations. Topics include: analyzing existing brands, creating new brand identities, and developing brand standards manuals.

Prerequisites: GRD 200

GRD 240 Packaging Design

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on 2D design for product packaging. Topics include: analyzing audiences, creating basic die lines, and ensuring design continuity from surface to surface.

Prerequisites: GRD 200, GRD 215

GRD 250 User Interface Design and Implementation 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on designing and implementing the interface for web and mobile products, using Adobe Muse and WordPress software.

Prerequisites: GRD 110 and WEB 111

GRD 260 3D Visualization

5 Credits. 3 Lecture Hours. 4 Lab Hours.

An introduction to 3D concepts and skills using Maya software. Topics include: polygon, NURBS, and subdivision surface modeling; texturing; animation; lighting; rendering; interaction of soft and rigid body solvers; dynamics; and manipulation of 3D attributes using nodes and connections.

Prerequisites: GRD 200

GRD 285 Graphic Design Independent Final Project 3 Credits. 2 Lecture Hours. 3 Lab Hours.

Qualified students work individually or with an approved team from concept to completion on a graphic design project, and present the results to reviewers. Topic and outline must be presented to a jury of instructors, and approved prior to course registration. Students who do not successfully complete the course may make one additional attempt.

Prerequisites: Graphic Design Program Chair consent, and minimum 3.0 GPA

Instructor Consent Required

GRD 290 Graphic Design Capstone

3 Credits. 2 Lecture Hours. 3 Lab Hours.

Qualified students work in structured teams to develop graphic design deliverables for an external client, and present the results to reviewers. Activities include audience, client, and market analysis; and all phases of production of materials. Students who do not successfully complete the course may make one additional attempt.

Prerequisites: Graphic Design Program Chair consent, and minimum 2.5 GPA

Instructor Consent Required

GRD 291 Full-Time Cooperative Education 1: Graphic Design 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

GRD 292 Full-Time Cooperative Education 2: Graphic Design 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 291

GRD 293 Full-Time Cooperative Education 3: Graphic Design 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 292

GRD 294 Internship 1: Graphic Design 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MID 190, GRD 200

GRD 295 Internship 2: Graphic Design 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: GRD 294

GRD 298 Second Year Special Topics in Graphic Design 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Graphic Design, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

GRD 299 Second Year Independent Project in Graphic Design 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Graphic Design that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Graphic Design faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

HFT

Courses

HFT 116 Pilates Mat Instructor

2 Credits, 1 Lecture Hour, 2 Lab Hours.

A course that prepares students for the National Pilates Mat Certification Examination. Topics include: history and principles of Pilates, levels of exercises, safety guidelines, instructional concepts, and modifications for special populations.

Prerequisites: Must be admitted to the Pilates Mat Instructor Certificate program.

Corequisites: HFT 180: Pilates Mat Practicum

HFT 118 Yoga Teacher Training 1 5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course that prepares students for National Yoga Alliance Certification. Topics include: building a personal practice, instructional concepts, safety guidelines, modifications for special populations, physical anatomy, and yoga techniques and practices.

Prerequisites: Must be admitted to the Yoga Teacher Training Certificate program.

Corequisites: HFT 184: Yoga Internship 1

HFT 119 Yoga Teacher Training 2 5 Credits. 3 Lecture Hours. 4 Lab Hours.

A continuation of HFT 118 that prepares students for National Yoga Alliance Certification. Topics include: guidelines, modifications for special populations, anatomy, and yoga techniques and practices.

Prerequisites: HFT 118 and HFT 184 Corequisites: HFT 185: Yoga Internship 2

HFT 122 Group Fitness Instructor 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course that prepares students for the National Group Fitness Instructor Examination. Topics include: communication skills, instructional concepts, effective exercise design, choreography, safety guidelines, and modifications for special populations.

Prerequisites: Must be admitted to the Group Fitness Instructor Certificate program

HFT 124 Resistance Training Instructor 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on theories and guidelines for designing safe, effective, and efficient resistance training programs. Topics include: evaluation of biomechanical, physiologic, and genetic factors affecting strength and muscle tissue gain.

Prerequisites: Must be admitted to the Resistance Training Certificate

HFT 128 Aquatic Group Fitness Instructor 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on aquatic exercise principles, techniques, and group instruction skills for students pursuing aquatic group fitness instructor certification. Topics include: anatomy and physiology of aquatic exercise, effects of water on the body, movement analysis, and class formats.

Prerequisites: Must be admitted to the Aquatic Group Fitness Instructor Certificate program

HFT 130 Foundations of Health and Wellness Programs 3 Credits, 2 Lecture Hours, 2 Lab Hours,

A course on developing fitness and wellness programs for individuals and groups, emphasizing disease prevention and health promotion. Topics include: fitness testing for each fitness component, behavior modification, nutrition, stress management, addictions, sexually transmitted disease, and chronic disease.

Prerequisites: AFL 085 and AFM 092 (minimum grade C for both), or appropriate placement test scores

HFT 151 Personal Fitness Trainer 1 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on techniques used in the personal training fitness field. Topics include: the body's response to exercise, screening and consultation guidelines, dietary principles, and communication and documentation.

Prerequisites: AFL 085 and AFM 092 (minimum grade C for both) or appropriate placement test scores, and must be admitted to the Personal Fitness Trainer Certificate program.

Corequisites: HFT 130: Foundations of Health and Wellness **Programs**

HFT 152 Personal Fitness Trainer 2 3 Credits, 2 Lecture Hours, 2 Lab Hours,

A continuation of HFT 151 that prepares students for the National Certified Personal Trainer Exam. Topics include: applying exercise principles, using therapeutic exercise, working with special populations, understanding legal issues, and analyzing and evaluating fitness techniques.

Prerequisites: HFT 151 (minimum grade C).

Corequisites: HFT 182: Personal Fitness Trainer Practicum

HFT 156 Establishing a Personal Training Business 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on strategies for promoting personal training services and establishing a client base. Topics include: using resources to build a client base, applying sales processes, networking, analyzing needs, and handling objections.

Prerequisites: HFT 151 (minimum grade C)

HFT 160 Aquatic Personal Trainer

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course for experienced personal trainers who want to enter the aquatic fitness field. Topics include: effects of water properties on exercise programming, monitoring exercise intensity in aquatic environments, and aquatic exercise formats.

Prerequisites: Must be admitted to the Aquatic Personal Trainer Certificate program

HFT 164 Health and Fitness Across the Life Span 1 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the impact of exercise on quality of life for older adults and those with chronic health conditions/diseases. Topics include: American College of Sports Medicine guidelines for testing and exercise prescription, and the effects of the aging process and chronic conditions on exercise performance and fitness program development. Prerequisites: HFT 130 (minimum grade C), and must be admitted to the Health and Fitness Special Populations Certificate program

HFT 168 Health and Fitness Across the Life Span 2 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the national guidelines for youth fitness/physical activity and exercise programming throughout a woman's life stages. Topics include: program design; childhood obesity; the role of school, family, and community in youth fitness; cultural and gender differences affecting fitness; and women's life stages (adolescence, prenatal, menopause) and conditions that affect exercise.

Prerequisites: HFT 130 (minimum grade C)

Instructor Consent Required

HFT 180 Pilates Mat Practicum

2 Credits. 1 Lecture Hour. 7 Lab Hours.

Students apply Pilates knowledge and skills in a health and fitness setting by observing and assisting in Pilates Mat classes taught by a certified Pilates instructor.

Prerequisites: Must be admitted to the Pilates Mat Instructor Certificate program.

Corequisites: HFT 116: Pilates Mat Instructor

HFT 182 Personal Fitness Trainer Practicum 2 Credits. 1 Lecture Hour. 7 Lab Hours.

Students apply personal fitness training knowledge and skills in a health and fitness setting by observing and assisting with classes taught by a professional personal fitness trainer.

Prerequisites: HFT 151 (minimum grade C). Corequisites: HFT 152: Personal Fitness Trainer 2

HFT 184 Yoga Internship 1

2 Credits. 1 Lecture Hour. 2 Lab Hours.

Students apply yoga knowledge and skills in a practice setting by observing and assisting in classes taught by a certified Yoga Instructor. Prerequisites: Must be admitted to the Yoga Teacher Training

Certificate program.

Corequisites: HFT 118: Yoga Teacher Training 1

HFT 185 Yoga Internship 2

2 Credits. 1 Lecture Hour. 2 Lab Hours.

Students apply yoga knowledge and skills in a practice setting by observing and assisting in classes taught by a certified Yoga Instructor.

Prerequisites: HFT 118 and HFT 184

Corequisites: HFT 119: Yoga Teacher Training 2

HFT 191 Part-Time Cooperative Education: Health And Fitness 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HFT 250 and EMS 100 (minimum grade C for both), and instructor consent

Corequisites: HFT 260: Health and Fitness Program Design Instructor Consent Required

HFT 198 First Year Special Topics in Health and Fitness Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health and Fitness Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: AFL 085 and AFM 092 (minimum grade C) or AFM 090 (minimum grade C), or appropriate placement test score

HFT 199 First Year Independent Project in Health and Fitness

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Health and Fitness Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health and Fitness Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

HFT 250 Exercise Physiology

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on the human body's response and adaptations to exercise and physical training. Topics include: the influence of exercise on body systems, optimal physiological adaptations for improving fitness and performance, and testing and programming related to exercise and fitness.

Prerequisites: BIO 151 and ENG 101 and HFT 130 and MAT 105 (minimum grade C for all) Instructor Consent Required

HFT 251 Corrective Exercise Specialist

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course that prepares experienced fitness trainers/instructors to successfully prevent injuries and recondition clients of all levels, and to take the National Academy of Sports Medicine Corrective Exercise Specialist exam. Topics include: fundamentals of corrective exercise, and developing and implementing integrated strategies to improve common movement impairments.

Prerequisites: Currently enrolled in HFT 152, or earned Cincinnati State certificate in Personal Fitness Trainer or Group Fitness Instructor, or have a comparable current national accreditation or certification

Instructor Consent Required

HFT 255 Anatomical Kinesiology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of human anatomy and motion as they relate to physical activity and skill performance. Topics include: the function of the skeletal, muscle, and nervous systems in generation and maintenance of human movement.

Prerequisites: HFT 130 (minimum grade C)

HFT 260 Health and Fitness Program Design 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on skills for identifying, assessing, designing, promoting, implementing, and evaluating programs for health and fitness in various settings. Topics include: needs assessment, funding, marketing, and using tools for evaluating program outcomes. Prerequisites: HFT 250 (minimum grade C).

Corequisites: HFT 294: Intership: Health and Fitness Technology or HFT 191: Part-Time Co-Op: HFT

HFT 294 Internship: Health and Fitness Technology 2 Credits, 1 Lecture Hour, 40 Lab Hours.

Students seeking an associate's degree participate in an unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HFT 250 and EMS 100 (minimum grade C for both), and instructor consent.

Corequisites: HFT 260: Health and Fitness Program Design Instructor Consent Required

HFT 298 Second Year Special Topics in Health and Fitness

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health and Fitness Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

HFT 299 Second Year Independent Project in Health and Fitness **Technology**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Health and Fitness Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health and Fitness Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

HIM

Courses

HIM 100 Introduction to Health Information Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on key concepts of the health information management profession and health care documentation. Topics include: function, maintenance, storage, and processing of health records; and accreditation/regulatory requirements for health record documentation in acute and specialized care settings.

Prerequisites: BIO 100 or BIO 111, and CHE 100 or CHE 110 (minimum grade C for all) or high school or college-level Biology and Chemistry within the past 7 years with a minimum grade of C, and instructor consent

Instructor Consent Required

HIM 105 Legal Aspects of Health Information Management 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the health record as a legal document. Topics include: Health Insurance Portability and Accountability Act (HIPAA) regulations, release of information procedures, legal requirements for health record documentation, risk management, and physician credentialing.

Prerequisites: BIO 100 or BIO 111, and CHE 100 or CHE 110 (minimum grade C for all)

Ohio Transfer Assurance Guide Approved

HIM 110 Healthcare Quality Management and Data Analysis 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on fundamentals of quality improvement and data analytics in healthcare. Topics include: quality improvement activities and processes, healthcare data analysis and presentation, and calculation of healthcare statistics.

Prerequisites: HIM 100 and IM 120 and MAT 131 (minimum grade C for all)

HIM 115 Clinical Abstracting of Health Data 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on abstracting supportive data used to validate diagnoses, and applying procedures used to create clinical databases. Topics include: analyzing and interpreting documentation, pharmacotherapy, establishing medical necessity for common laboratory and radiology tests, and Uniform Hospital Discharge Data Set (UHDDS) guidelines. Prerequisites: BIO 151 and HIM 100 (minimum grade C for both)

HIM 120 Health Information Technology Systems 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamentals of healthcare information systems, with a focus on the electronic health record. Topics include: health information security, and data exchange standards.

Prerequisites: HIM 105 (minimum grade C)

HIM 125 CPT Coding

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of the Current Procedural Terminology (CPT) coding system used to identify medical services and procedures performed by physicians. Topics include: coding for surgical procedures, radiology, pathology, laboratory, evaluation and management services, and anesthesiology; and modifiers and HCPCS Level II codes.

Prerequisites: BIO 152, HIM 115 (minimum grade C for both)

HIM 130 International Classification of Diseases (ICD) Coding 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on principles of the ICD classification system for disease and procedure coding, including revision of the ICD to meet federal regulations. Topics include: coding for diseases and procedures associated with all body systems, coding to identify external causes of morbidity, health status factors, contact with health services, and preparing for entry-level certification exams.

Prerequisites: BIO 152 and HIM 115

HIM 135 Pharmacology for Health Information Management 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on health information related to drug therapy. Topics include: principles of drug therapy, drug classes and schedules, modes of administration, and indications and adverse effects for the major drug classes.

Prerequisites: BIO 152 and MCH 104

HIM 191 Part-Time Cooperative Education 1: Health Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HIM 100 (minimum grade C)

Instructor Consent Required

HIM 198 First Year Special Topics in Health Information Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health Information Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

HIM 199 First Year Independent Project in Health Information Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Health Information Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health Information Management faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

HIM 200 Health Information Management Strategies 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamental principles of healthcare management and project management. Topics include: skills and methods for effective management of people, budgets, and projects; and roles of teams and committees.

Prerequisites: HIM 210 and HIM 215 (minimum grade C for both) Corequisites: HIM 220 : Health Information Management Certification Exam Review

HIM 210 Healthcare Reimbursement Methodologies 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on reimbursement systems for healthcare services. Topics include: CMS 1500, UB-04, inpatient and outpatient prospective payment systems, Resource Based Relative Value Scale (RBRVS), and compliance monitoring.

Prerequisites: HIM 130 (minimum grade C) Corequisites: HIM 215: Advanced Medical Coding Ohio Transfer Assurance Guide Approved

HIM 215 Advanced Medical Coding 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on advanced principles of medical coding. Topics include: medical documentation concepts, code assignment, Diagnostic Related Groups (DRG), and Ambulatory Payment Classifications

Prerequisites: HIM 130 (minimum grade C)

Corequisites: HIM 210: Healthcare Reimbursement Methodologies

HIM 220 Health Information Management Certification Exam Review

2 Credits. 2 Lecture Hours. 0 Lab Hour.

Students review theory and practice in health information management to prepare for the national certification examination.

Prerequisites: HIM 210 and HIM 215 (minimum grade C for both) Corequisites: HIM 200: Health Information Management Strategies

HIM 225 Current Procedural Terminology (CPT) Coding 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of the Current Procedural Terminology (CPT) coding system used to identify medical services and procedures performed by physicians. Topics include: coding for surgical procedures, radiology, pathology, anesthesiology, and laboratory, evaluation, and management services; and modifiers and Heathcare Procedure Coding System (HCPCS) Level II Codes.

Prerequisites: BIO 152

HIM 280 Health Information Management Professional Practice 1 Credit. 0 Lecture Hour. 7 Lab Hours.

Students observe and participate in the operational functions of a community health information management department or specialized health information management work setting. Students also apply health information management principles to complete on-campus assignments and projects.

Prerequisites: HIM 110 and HIM 120 and HIM 130 (minimum grade C for all)

HIM 291 Full-time Cooperative Education 1: Health Information Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HIM 100 (minimum grade C)

Instructor Consent Required

HIM 298 Second Year Special Topics in Health Information Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health Information Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

HIM 299 Second Year Independent Project in Health Information Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Health Information Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health Information Management faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None



Courses

HIT 100 Language and Culture of Healthcare 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on key elements of the U.S. healthcare system. Topics include: basic operations; in-patient, ambulatory, and mental health services; government influence on healthcare delivery; roles of healthcare professionals; and legal and ethical aspects of healthcare. Prerequisites: AFL 085 or appropriate placement test score

HIT 105 Information Technology Systems in Healthcare 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the use and value of information system technology in healthcare settings. Topics include: choosing and implementing health IT systems, clinical care delivery, and tracking and reporting healthcare delivery outcomes.

Prerequisites: HIT 100

HIT 191 Part-time Co-op 1: HIT

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HIT 100 (minimum grade C)

Instructor Consent Required

HIT 192 Part-time Co-op 2: HIT

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HIT 191 Instructor Consent Required

HIT 198 First Year Special Topics in Health Information Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health Information Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

HIT 199 First Year Independent Project in Health Information Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Health Information Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health Information Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HIT 210 Healthcare Reimbursement

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the history and use of healthcare reimbursement systems. Topics include: current structure and future directions for private and public healthcare reimbursement systems, and the computer systems and business processes involved in healthcare reimbursement.

Prerequisites: HIT 105

HIT 215 Healthcare Programming

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on basic theory of healthcare information system integration. Topics include: designing, coding, implementing and supporting HL7 transactions, and the value of health information system integration within an organization and across disparate organizations.

Prerequisites: HIT 105

HIT 220 Health Information Technology in the Continuum of Care 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on health information systems in non-hospital healthcare settings. Topics include: integrating and exchanging patient information across care settings, using health information to improve patient care and public health outcomes, and protecting health information security and integrity.

Prerequisites: HIT 105

HIT 225 Data Mining

3 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques of data mining, the computerassisted process of evaluating sets of data to find previously undiscovered patterns, draw conclusions, and make decisions based on those patterns.

Prerequisites: IT 112, MAT 131

HIT 291 Full-Time Cooperative Education 1: Health Information Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HIT 105, IT 111, BPA 130, CIT 190 (minimum grade C for all)

HIT 292 Full-Time Cooperative Education 2: Health Information Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HIT 291

Prerequisites: None

HIT 294 Internship: Health Information Technology 1 Credit. 0 Lecture Hour. 20 Lab Hours.

Students participate in an unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IT 111 and HIT 210 and IT 101

HIT 298 Second Year Special Topics in Health Information Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health Information Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

HIT 299 Second Year Independent Project in Health Information Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Health Information Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health Information Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HNR

Courses

HNR 100 Orientation to Honors

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course required for students admitted to the Honors Experience.

Prerequisites: Admitted to the Honors Experience or instructor consent Instructor Consent Required

HNR 198 First Year Special Topics in Honors Program 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Honors Program, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HNR 199 First Year Independent Project in Honors Program 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Honors Program that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Honors Program faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HNR 298 Second Year Special Topics in Honors Program 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Honors Program, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HNR 299 Second Year Independent Project in Honors Program 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Honors Program that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Honors Program faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HRM

Courses

HRM 100 Hospitality Careers

1 Credit. 1 Lecture Hour. 0 Lab Hour.

An introduction to the hospitality industry. Topics include: history, structure, and trends of the hospitality industry; career opportunities; and preparation for cooperative education experience.

Prerequisites: AFL 085 or appropriate placement test score

HRM 105 Food Service Sanitation

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on sanitation and safety in the food service industry. Students complete the ServSafe certification exam as part of this course. Prerequisites: AFL 085 or appropriate placement test score

HRM 110 Food and Beverage Cost Control 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on food service cost control systems. Topics include: food, beverage, and labor cost control; sales control; and profit and loss analysis.

Prerequisites: AFM 092 or appropriate placement test score

HRM 115 Rooms Division Management 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on rooms division management and operations. Topics include: operating procedures for performing the hotel audit, registration and reservations, hotel rates, posting charges and credits, housekeeping and sanitation, and security.

Prerequisites: None

HRM 130 Food and Beverage Division Management 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for food and beverage management and operations. Topics include: leadership and supervision, operating procedures, and internal and external marketing of food and beverage services.

Prerequisites: ENG 101

HRM 135 Event, Meeting, and Convention Management 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques for effective management of special events. Topics include: event planning, sales processes within catering operations, and negotiating sales and catering contracts. Prerequisites: HRM 115

HRM 191 Part-Time Cooperative Education 1: Hospitality Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: HRM 100 and co-op coordinator consent
Instructor Consent Required

HRM 192 Part-Time Cooperative Education 2: Hospitality Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 191

HRM 193 Part-Time Cooperative Education 3: Hospitality Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 192

HRM 194 Part-Time Cooperative Education 4: Hospitality Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 193

HRM 195 Part-Time Cooperative Education 5: Hospitality Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 194

HRM 196 Part-Time Cooperative Education 6: Hospitality Management

1 Credit, 1 Lecture Hour, 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 195

HRM 198 First Year Special Topics in Hospitality Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Hospitality Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HRM 199 First Year Independent Project in Hospitality Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Hospitality Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Hospitality Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HRM 291 Full-Time Cooperative Education 1: Hospitality Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HRM 100 and co-op coordinator consent Instructor Consent Required

HRM 292 Full-Time Cooperative Education 2: Hospitality Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HRM 291

HRM 293 Full-Time Cooperative Education 3: Hospitality Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HRM 292

HRM 298 Second Year Special Topics in Hospitality Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Hospitality Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HRM 299 Second Year Independent Project in Hospitality Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Hospitality Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Hospitality Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HST

Courses

HST 101 World History: First Civilizations to 1500 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of world history from the first civilizations until the modern era. Topics include: the first civilizations of China, India, the Americas,

Europe, Greece, Asia, and Africa.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

HST 102 World History: 1500 to Present 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of world history from the modern era until the present. Topics include: creation of a world market, Europe transformed, Muslim Empire, new world order, modernization, imperialism, crises of the 20th century, and World War II and its aftermath.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

HST 111 American History: Early Settlers to 1877 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of the formative years of the Republic from Colonial America through 1877. Topics include: early settlements, independence, slavery, expansion west, the Civil War, and Reconstruction.

Prerequisites: AFL 085 or appropriate placement test score
Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

HST 112 American History: 1877 to Present 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of U.S. history from the end of Reconstruction until the present. Topics include: expansion, the Gilded Age, the Progressive Era, World War I, the Great Depression, World War II, the Cold War, and the 1960s.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

HST 121 African American History: Origins to 1877 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the African American experience. Topics include: origins in Africa, the Atlantic slave trade, North American slavery, the Civil War, emancipation, and post-Civil War reconstruction.

Prerequisites: AFL 085 or appropriate placement test score
Ohio Transfer Module Approved

HST 122 African American History: 1877 to Present 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the African American experience after 1877. Topics include: legal, social, and economic restrictions and struggle for equality; racial intolerance; the Civil Rights Movement; and contemporary realities of race.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

HST 130 History of Africa

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on major developments in African history from the 15th century to the present. Topics include: the Atlantic slave world, colonization, contemporary sub-Saharan Africa, nationalism, independence movements, and developing nations.

Prerequisites: AFL 085 or appropriate placement test score
Ohio Transfer Module Approved

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HST 140 History of Cincinnati 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the political, social, economic, and cultural development of Cincinnati, from the city's founding to the present. Topics include: the German heritage, the role of a river city, industrialization, and the city's contributions to U.S. history and culture.

Prerequisites: AFL 085 or appropriate placement test score

HST 161 Western Civilization: Origins to 1648 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of major historical developments in western civilization from pre-history to the early modern era. Topics include Near Eastern, Greek and Roman populations, the Middle Ages, and the formation of monarchies in Western Europe.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

HST 162 Western Civilization: 1648 to Present 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A survey of major historical developments in western civilization from the early modern era in Europe to the present. Topics include religious wars; industrialization; urbanization; and world politics including World War I and World War II, the Cold War, and the rise of competing political and economic systems.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

HST 198 First Year Special Topics in History 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to History, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HST 199 First Year Independent Project in History 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to History that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by History faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HST 298 Second Year Special Topics in History 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to History, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HST 299 Second Year Independent Project in History 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to History that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by History faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HUM

Courses

HUM 190 Career Exploration Seminar: Associate of Arts / **Associate of Science**

2 Credits, 2 Lecture Hours, 0 Lab Hour,

Students seeking an Associate of Arts or Associate of Science degree assess their life experience, skills, and interests, and carry out a variety of structured activities (including directed reading and writing assignments) in order to set realistic career goals. Students should complete this course during their second academic semester. Prerequisites: AFL 085 (minimum grade C) or appropriate placement

test score

HUM 191 Part-Time Cooperative Education 1: Associate of Arts and Sciences

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 190

HUM 192 Part-Time Cooperative Education 2: Associate of Arts and Sciences

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 191

HUM 194 Part-Time Career Education Project 1: Associate of Arts and Sciences

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree complete their first individual study or a special project related to their major field and pertaining to their career goals. Working with an assigned faculty mentor, students define the project goals, carry out project tasks, and evaluate the results. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 190 and coordinator consent

Instructor Consent Required

HUM 195 Part-Time Career Education Project 2: Associate of Arts and Sciences

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree complete their second individual study or a special project related to their major field and pertaining to their career goals. Working with an assigned faculty mentor, students define the project goals, carry out project tasks, and evaluate the results. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 194 and coordinator consent

Instructor Consent Required

HUM 198 First Year Special Topics in Humanities and Sciences 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Humanities and Sciences, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

HUM 199 First Year Independent Project in Humanities and Sciences

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Humanities and Sciences that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Humanities and Sciences faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

HUM 291 Full-Time Cooperative Education 1: Associate of Arts and Sciences

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 190

HUM 292 Full-Time Cooperative Education 2: Assoc 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 291

HUM 294 Internship: Associate of Arts and Sciences 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree participate in an unpaid field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HUM 190

HUM 296 Full-Time Career Education Project: Associate of Arts and Sciences

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an Associate of Arts or Associate of Sciences degree complete individual study or a special project related to their major field and pertaining to their career goals. Working with an assigned faculty mentor, students define the project goals, carry out project tasks, and evaluate the results. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HUM 190 and coordinator consent

Instructor Consent Required

HUM 298 Second Year Special Topics in Humanities and Sciences 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Humanities and Sciences, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

HUM 299 Second Year Independent Project in Humanities and Sciences

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Humanities and Sciences that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Humanities and Sciences faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

IM

Courses

IM 100 Computer Literacy

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on fundamental concepts and skills for using computers. Prerequisites: None

IM 105 Keyboarding Skills

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on fundamental techniques for building keyboarding speed and formatting documents. Students must achieve a minimum speed of 15 words per minute to pass the course.

Prerequisites: None

IM 106 Introductory Electronic Word Processing: Microsoft Word 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental practical applications of Microsoft Word software. Topics include: creating and formatting documents, tables, and reports.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

IM 107 Introductory Electronic Presentations: Microsoft PowerPoint

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamentals of developing effective slide presentations using Microsoft Office PowerPoint software. Topics include: creating and editing presentations with pictures, and adding media and animation.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

IM 108 Introductory Electronic Spreadsheets: Microsoft Excel 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental techniques for using Microsoft Office Excel software. Topics include: constructing worksheets, writing formulas, using functions, and creating graphs.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

IM 109 Introductory Database Management: Microsoft Access 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental practical applications of Microsoft Office Access software. Topics include: developing tables, queries, and reports; working in datasheet and design view; and maintaining database files.

Prerequisites: AFL 085 or appropriate placement test score

IM 111 Computer Applications 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental skills for using workplace software applications. Topics include: Microsoft Office applications for word processing (MS Word), spreadsheets (MS Excel), database management (MS Access), and presentations (MS PowerPoint); the MS Windows operating system; using the internet; and file storage. Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed or higher

IM 112 Computer Applications 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IM 111, emphasizing development of advanced skills using workplace software applications for word processing, spreadsheets, database management, and presentations.

Prerequisites: IM 111 (minimum grade C)

IM 115 Administrative Office Procedures and Practices 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental concepts and skills required to perform office administration duties and activities.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

Corequisites: IM 130

IM 120 Electronic Spreadsheets: Microsoft Excel 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for using Microsoft Office Excel spreadsheet software. Topics include: constructing worksheets, writing formulas, constructing macros, and using spreadsheets with databases.

Prerequisites: AFL 085 and AFM 092 or appropriate placement test score

IM 130 Electronic Word Processing: Microsoft Word 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for word processing using Microsoft Office Word software. Topics include: developing letters and reports, using mail merge, and designing forms.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

IM 135 Business Document Formatting

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on composing, editing, and formatting professional business documents using appropriate business communication methods. Prerequisites: IM 130 (minimum grade C) and 40 wpm minimum keyboarding speed

IM 140 Electronic Database Management: Microsoft Access 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on concepts and skills for using Microsoft Office Access database management software. Topics include: designing, customizing, and maintaining database files; and integrating database files with other software applications.

Prerequisites: IM 111 or IM 130 (minimum grade C for both)

IM 145 Document Proofreading and Editing 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on using editing and proofreading skills to produce documents that are correct, complete, concise, coherent, clear, and courteous.

Prerequisites: ENG 101, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

IM 150 Electronic Presentations: Microsoft PowerPoint 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on skills for developing effective slide presentations using Microsoft Office PowerPoint software.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

IM 155 Emerging Technologies and Social Media 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on using web tools and social media in the workplace. Topics include: Microsoft Office OneNote, speech recognition, digital cameras, scanners, tablets, web communication including blogs and podcasts, and establishing brand identity through social media.

Prerequisites: IM 111 or IM 130 (minimum grade C for both)

IM 160 Electronic Publications: Microsoft Publisher 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on skills for preparing professional documents that combine text and images using Microsoft Publisher software.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) or 20 wpm keyboarding speed

IM 165 Legal Office Environment

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on legal concepts and the structure of law firms as applicable to paralegals and other support staff. Topics include: legal terminology, court systems and procedures, administrative functions, and ethics and professionalism.

Prerequisites: AFL 085 or appropriate placement test score

IM 170 Electronic Project Management: Microsoft Project 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on skills for creating project plans and schedules using Microsoft Project software. Topics include: communicating project information, assigning and tracking resources and costs, tracking progress, and sharing project information with people and with other software applications.

Prerequisites: IM 130 (minimum grade C)

IM 191 Part-Time Cooperative Education 1: Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: BUS 190 (minimum grade C)

IM 192 Part-Time Cooperative Education 2: Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: IM 191

IM 193 Part-Time Cooperative Education 3: Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: IM 192

IM 194 Part-Time Cooperative Education 4: Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IM 193

IM 195 Part-Time Cooperative Education 5: Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IM 194

IM 196 Part-Time Cooperative Education 6: Information Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IM 195

IM 198 First Year Special Topics in Information Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Information Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

IM 199 First Year Independent Project in Information Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Information Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Information Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

IM 200 Information Systems for Managers 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on foundational concepts related to use of information systems such as the internet, e-mail, spreadsheet software, and database software.

Prerequisites: AFL 085 or appropriate placement test score, and IM 105 (minimum grade C) 20 wpm keyboarding speed

IM 225 Legal Transcription and Formatting 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on preparing and transcribing a variety of legal documents for litigation, probate, and family law practices. Topics include: legal terminology, attention to detail, and proofreading.

Prerequisites: IM 135 and IM 165 (minimum grade C for both)

IM 260 Medical Administrative Procedures 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on skills for appropriately operating any computerized billing and scheduling software used in medical offices. Topics include: terminology, gathering patient information, and entering transactions. Students complete case studies using billing/scheduling software. Prerequisites: IM 115 and IM 130 (minimum grade C for both) and MCH 102

IM 290 Administrative Assistant Capstone

3 Credits. 2 Lecture Hours. 3 Lab Hours.

Students seeking the Administrative Assistant associate degree complete projects that demonstrate proficiency in integrated use of workplace software applications, as well as proficiency in techniques for research and communication.

Prerequisites: IM 120, IM 130, IM 140, and IM 145 (minimum grade C for all)

IM 291 Full-Time Cooperative Education 1: Information Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

IM 292 Full-Time Cooperative Education 2: Information Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IM 291

IM 293 Full-Time Cooperative Education 3: Information Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IM 292

IM 298 Second Year Special Topics in Information Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Information Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

IM 299 Second Year Independent Project in Information Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Information Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Information Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

IT

Courses

IT 100 Computer Programming Foundations 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental concepts related to computer programming. Topics include: problem solving and developmental tools, design techniques such as flow charting and pseudo coding, and testing techniques used in programming.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

IT 101 Programming 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to concepts of object-oriented software development. Topics include: application design methods, stages of software development, structures of programming, and modular programming concepts using procedures and functions.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

IT 102 Programming 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 101. Topics include: object-oriented design and implementation, developing class modules, and accessing and writing to external data storage and databases-embedded SQL and stored procedures.

Prerequisites: IT 101 and IT 111

IT 103 .NET Programming 3

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 102. Topics include: creating, debugging, and maintaining web-based database applications using the .NET framework.

Prerequisites: IT 102 and IT 111

IT 105 Information Technology Concepts 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on information technology fundamentals. Topics include: the internet, software, hardware, input/output (I/O) and storage, operating systems, communications and networks, database management, security, system development, programming, enterprise computing, and numbering systems. The course is delivered through online instruction only.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

IT 110 HTML with CSS and JavaScript

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on internet programming using HTML, CSS, and JavaScript. Topics include: HTML commands, cascading style sheets, JavaScript commands, web applications (apps), and dynamic web pages.

Prerequisites: None

IT 111 Database Design & SQL 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of relational database design and implementation using Microsoft SQL Server. Topics include: SQL Enterprise Manager, fundamentals of database design and normalization, data import and export, Structured Query Language (SQL), indexes and keys, views, and stored procedures. Prerequisites: AFL 085 and AFM 092, or appropriate placement test

scores

IT 112 Database Design and SQL 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 111. Topics include: advanced stored procedures using transact SQL, user defined functions, triggers, user defined data types, full text searching, replication, database maintenance plans, and designing data models from abstract requirements.

Prerequisites: IT 111 (minimum grade C)

IT 115 Operating Systems Administration 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the Windows operating system used on PCs. Topics include Windows utilization and management, utilities, managing disks, disaster recovery, troubleshooting, user management, productivity tools, and performance issues. This course prepares students for a Microsoft Certification exam.

Prerequisites: AFL 085 or appropriate placement test score

IT 116 Operating Systems Administration 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 115. Topics include: managing software problems; managing virtualization; and client configuration, development, deployment, and security. This course prepares students for a Microsoft Certification exam.

Prerequisites: IT 115 (minimum grade C)

IT 117 Web Application Development 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of web-based application development. Topics include: current front-end and back end technologies used to develop business-related applications, and understanding infrastructure to support application development.

Prerequisites: IT 101 and IT 111

IT 118 Web Application Development 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT-117. Topics include: using current front-end and back-end technologies to develop business-related applications.

Prerequisites: IT 117

IT 140 PHP and MySQL

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course in PHP web programming with a MySQL database. Topics include: PHP language, syntax, variables, and forms; MySQL database design; connecting to a MySQL database using PHP; inserting, editing, and deleting MySQL data using PHP; and building dynamic web pages using PHP and MySQL.

Prerequisites: IT 101 and IT 110

IT 150 Logistics and Distribution Technology 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on technologies and software used in supply chain management for freight, air, and maritime logistics operations. Topics include: barcodes, RFID, Wi-Fi tags, logistics and inventory software, high frequency tracking, and passive/active tracking.

Prerequisites: SCM 105

IT 161 Java Programming 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of the Java programming language. Topics include: data types, variables, basic command line input/output, decisions, loops, procedures, string manipulation, arrays, object-oriented development, event programming, and database programming.

Prerequisites: IT 101

IT 162 Java Programming 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 161. Topics include: Java Server Pages (JSP) and complex database applications using Java and JSP.

Prerequisites: IT 161

IT 212 Business Intelligence, Data Warehousing, and Reporting 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts, technologies, and techniques used to effectively consolidate, arrange, and analyze large amounts of data. Topics include: decision support systems, data mining, and how to derive business value from large amounts of data.

Prerequisites: IT 112

IT 215 Scripting

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on task automation and configuration management using Microsoft PowerShell programming language. Topics include: modifying existing PowerShell scripts, and creating new scripts to automate common tasks.

Prerequisites: NETB 155

IT 218 Web Application Development 3 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 118. Topics include: using current front-end and back-end technologies to develop complex business-related applications.

Prerequisites: IT 118

IT 220 Emerging Topics in Computer Software Development 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on current topics related to Computer Software Development such as data reporting, XML, and other new concerns.

Prerequisites: IT 101, IT 110, IT 111

IT 262 Java Programming 3

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of IT 162. Topics include: completing complex projects using Java and associated technologies.

Prerequisites: IT 162

ITP

Courses

ITP 101 Beginning American Sign Language 1 3 Credits. 3 Lecture Hours. 1 Lab Hour.

An introductory course on American Sign Language. Topics include: ASL vocabulary, Deaf culture, ASL grammatical features, and beginning ASL conversational comprehensive and expressive skills.

Prerequisites: None

Ohio Transfer Assurance Guide Approved

ITP 102 Beginning American Sign Language 2 3 Credits, 3 Lecture Hours, 1 Lab Hour,

A continuation of ITP 101. Topics include: continued development of ASL vocabulary, Deaf cultural aspects, grammatical features, and beginning conversational comprehensive and expressive skills.

Prerequisites: ITP 101 (minimum grade C)

ITP 120 Psychosocial Aspects of Deafness 2 Credits. 2 Lecture Hours. 0 Lab Hour.

An introductory course on psychosocial aspects of Deafness. Topics include: language, norms of behavior, values, and traditions within Deafness; and the evolution of the view of Deaf people from a pathological to a cultural perspective.

Prerequisites: None

ITP 125 Deaf Culture and History

2 Credits. 2 Lecture Hours. 0 Lab Hour.

An introductory course on the unique characteristics influencing Deaf people throughout the past hundred years, and the achievements and accomplishments of Deaf individuals in various professional fields. Prerequisites: None

ITP 130 Legal Issues of Deafness

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on the legal rights of the Deaf and people with other disabilities, and the social service organizations and other agencies that serve the Deaf population.

Prerequisites: None

ITP 135 Introduction to the Interpreting Profession 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course offering a framework for understanding the field of interpreting. Topics include: role of the interpreter in various settings, the interpreting process, physical factors, language variations, and the Code of Professional Conduct.

Prerequisites: None

ITP 140 Fingerspelling and Numbers

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course providing intensive practice in comprehension and production of fingerspelled words and numbers, with emphasis on clarity and accuracy.

Prerequisites: ITP 101 (minimum grade C) or ITP Program Chair consent

ITP 191 ITP Limited Practicum 1

1 Credit. 1 Lecture Hour. 3 Lab Hours.

Students spend three hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 250 (minimum grade C)

ITP 192 ITP Limited Practicum 2

1 Credit. 1 Lecture Hour. 3 Lab Hours.

A continuation of ITP 191. Students spend three hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 191 (minimum grade C)

ITP 193 ITP Limited Practicum 3

1 Credit. 1 Lecture Hour. 3 Lab Hours.

A continuation of ITP 192. Students spend three hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 192 (minimum grade C)

ITP 194 ITP Limited Practicum 4

1 Credit. 1 Lecture Hour. 3 Lab Hours.

A continuation of ITP 193. Students spend three hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 193 (minimum grade C)

ITP 195 ITP Limited Practicum 5

1 Credit. 1 Lecture Hour. 3 Lab Hours.

A continuation of ITP 194. Students spend three hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 194 (minimum grade C)

ITP 196 ITP Limited Practicum 6

1 Credit. 1 Lecture Hour. 3 Lab Hours.

A continuation of ITP 195. Students spend three hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 195 (minimum grade C)

ITP 198 First Year Special Topics in Interpreter Training 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Interpreter Training, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ITP 199 First Year Independent Project in Interpreter Training 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Interpreter Training that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Interpreter Training faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ITP 201 Intermediate American Sign Language 1 3 Credits. 3 Lecture Hours. 1 Lab Hour.

A course on developing and practicing receptive and expressive skills for acquiring ASL targeted vocabulary and grammatical features.

Topics include: improving ASL skills by visual comprehension, signing, writing with gloss system, and using basic expressive and receptive skills in laboratory/class settings.

Prerequisites: ITP 102 (minimum grade C)

ITP 202 Intermediate American Sign Language 2 3 Credits. 3 Lecture Hours. 1 Lab Hour.

A continuation of ITP 201. Topics include: higher level skills in major grammatical features of ASL and additional practice of receptive skills using prepared dialogues as well as numbers.

Prerequisites: ITP 201 (minimum grade C)

Corequisites: Take ITP-230

ITP 205 Performance Interpreting

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on interpreting for theatre and other performance art venues. Topics include: vocabulary and skill building, and script translation.

Prerequisites: ITP 201 (minimum grade C)

ITP 210 Deaf-Blind Interpreting

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the skills, protocols, and techniques necessary to communicate with, interpret for, and guide individuals who are Deaf-Blind.

Prerequisites: ITP 201 (minimum grade C)

ITP 215 Religious Interpreting

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on interpreting in religious settings. Topics include: religious signs and their relationships to various religious settings.

Prerequisites: ITP 201 (minimum grade C)

ITP 220 Educational Intepreting

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on interpreting in educational settings. Topics include: the educational setting, the code of professional conduct, inservicing, and the IEP process. The Ohio Department of Education's Interpreter Guidelines are included in the curriculum.

Prerequisites: ITP 201 (minimum grade C)

ITP 225 Vocabulary Building

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course reviewing sign vocabulary already learned as well as introduction of new vocabulary in order to scaffold the student?s sign vocabulary base. Topics include:á ASL structure, appropriate sign parameters, and conceptual accuracy.

Prerequisites: ITP 201 (minimum grade C)

ITP 230 Intermediate Assessment 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on reviewing and teaching ASL vocabulary and structure, culminating in the Intermediate Assessment. Students receive a course grade of Satisfactory or Unsatisfactory.

Prerequisites: ITP 201 (minimum grade C)

Corequisites: Take ITP-202

ITP 250 Interactive Interpreting

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theoretical strategies and practice in interpreting simultaneously between spoken English and American Sign Language. Topics include: applying components of the Demand-Control schema, and applying advanced interpreting techniques. Students must pass this class as a prerequisite to practicum experience.

Prerequisites: ITP 202 and ITP 230 (minimum grade C for both)

ITP 251 Advanced American Sign Language 1 3 Credits. 3 Lecture Hours. 1 Lab Hour.

A course on advanced ASL communication skills, vocabulary, and grammatical features. Topics include: advanced practice and development of expressive and receptive skills in American Sign Language.

Prerequisites: ITP 202 and ITP 230 (minimum grade C for both)

ITP 252 Advanced American Sign Language 2 3 Credits. 3 Lecture Hours. 1 Lab Hour.

A continuation of ITP 251. Topics include: advanced level vocabulary building and grammatical features improvement, and applying native-like signing into American Sign Language production.

Prerequisites: ITP 251 (minimum grade C)

ITP 261 Advanced Interpreting 1: Sign to Voice 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles and strategies of interpreting from American Sign Language into spoken and written English equivalents. Topics include: the technical and mental processes involved in ASL-to-English interpretation simultaneously and consecutively using the Colonomos and Gish Models.

Prerequisites: ITP 202 and ITP 230 (minimum grade C for both)

ITP 262 Advanced Interpreting 2: Sign to Voice

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A continuation of ITP 261. Topics include: signing with live models and unknown material.

Prerequisites: ITP 261 (minimum 80% on Voicing Evaluation)

ITP 265 Interpreting in Specialized Settings

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on specialized vocabulary used in advanced interpreting settings. Topics include: vocabulary related to mental health, social work, and legal interpreting settings.

Prerequisites: ITP 202 and ITP 230 (minimum grade C for both)

ITP 270 Transliterating

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on transmitting spoken English into English-based sign language. Topics include: initialized signs and other English-related communication systems.

Prerequisites: ITP 202 and ITP 230 (minimum grade C for both)

ITP 275 Interpreting in Medical Settings

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on applying interpreting/transliterating skills in medical settings. Topics include: development of discourse analysis, expressive and receptive skills production, feedback on interpreting skills in this specialized setting, development of specialized vocabulary, and application of the Demand-Control schema. Prerequisites: ITP 202 and ITP 230 (minimum grade C for both)

ITP 280 Interpreter Professionalism

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the professional components of becoming a sign language interpreter. Topics include: resume building; and appropriate conduct in the workplace, in interviews, and online.

Prerequisites: ITP 251 (minimum grade C)

ITP 291 ITP Parallel Practicum 1

2 Credits. 2 Lecture Hours. 5 Lab Hours.

Students spend five hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 250 (minimum grade C)

ITP 292 ITP Parallel Practicum 2

2 Credits. 2 Lecture Hours. 5 Lab Hours.

A continuation of ITP 291. Students spend five hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 291 (minimum grade C)

ITP 293 ITP Parallel Practicum 3

2 Credits. 2 Lecture Hours. 5 Lab Hours.

A continuation of ITP 292. Students spend five hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 292 (minimum grade C)

ITP 294 Educational Interpreting Practicum 2 Credits. 2 Lecture Hours. 5 Lab Hours.

Students spend 100 hours during the semester in a K-12 setting completing supervised observations of a working interpreter and practice in the role of an educational interpreter. Students also participate in weekly seminars.

Prerequisites: ITP 192 or ITP 291 or ITP 295 (minimum grade C for all)

ITP 295 ITP General Practicum 1

3 Credits. 2 Lecture Hours. 10 Lab Hours.

Students spend ten hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter. Students also participate in weekly

Prerequisites: ITP 250 (minimum grade C)

ITP 296 ITP General Practicum 2

3 Credits. 2 Lecture Hours. 10 Lab Hours.

A continuation of ITP 295. Students spend ten hours per week in educational institutions and community agencies, completing supervised observation and practice in the role of the interpreter.

Students also participate in weekly seminars. Prerequisites: ITP 295 (minimum grade C)

ITP 298 Second Year Special Topics in Interpreter Training 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Interpreter Training, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

ITP 299 Second Year Independent Project in Interpreter Training 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Interpreter Training that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Interpreter Training faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LAW

Courses

LAW 101 Business Law

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on the legal environment in which businesses operate. Prerequisites: AFL 080 or appropriate placement test score Ohio Transfer Assurance Guide Approved

LAW 110 Employment Law

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on major federal laws regarding employment rights, and responsibilities of the employer and employee. Topics include: public policy and processes related to hiring, work environment, and resignation and termination; and recent trends in employment law. Prerequisites: AFL 080 or appropriate placement test score

LAW 120 Legal Research and Writing 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on concepts and techniques for conducting legal research and composing legal documents. Topics include: research purposes and uses; citation procedure and format; computer research tools including LEXIS; and writing materials such as briefs, pleadings, memorandums, motions, and discovery documents. Students must attend field trips and work with a law clinic offering services to clients. Prerequisites: LAW 101, and ENG 101 or appropriate placement test score

LAW 130 Estate Planning, Family and Probate Law 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and processes of family and probate law and estate planning. Topics include: marriage, dissolution, divorce, and prenuptial agreements; child custody, visitation, and support; adoption and guardianship; juvenile law; and trusts and estate administration. Prerequisites: AFL 085 or appropriate placement test score, and LAW

LAW 140 Copyright and Trademark Law in Entertainment Industries

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on concepts and processes used to protect intellectual property in entertainment industries. Topics include: representing creative talent; business and personality interests; licensing; copyright; and legal concerns in music publishing, sound recording, literary publishing, and film and television.

Prerequisites: LAW 101

LAW 150 Bankruptcy, Debt Collection and Secured Transactions 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the bankruptcy code and the bankruptcy process from debtor and creditor perspectives. Topics include: filing Chapter 7, 13, and 11 bankruptcies; individual and business liquidation and reorganization plans; and secured transactions including mortgages and other liens.

Prerequisites: LAW 101

LAW 160 Administrative Law Practices and Procedures 2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on forms, procedures, and case management methods used in administrative agencies. Topics include: intake, claim filing, processing, and handling appeals to Social Security, Unemployment, Worker's Compensation and other State and Federal agencies. Students must attend field trips and work with a law clinic offering services to clients.

Prerequisites: LAW 101

LAW 191 Part-Time Cooperative Education 1: Legal Assistant 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BUS 190 (minimum grade C)

LAW 192 Part-Time Cooperative Education 2: Legal Assistant 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LAW 191

LAW 193 Part-Time Cooperative Education 3: Legal Assistant 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LAW 192

LAW 194 Part-Time Cooperative Education 4: Legal Assistant 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: LAW 193

LAW 195 Part-Time Cooperative Education 5: Legal Assistant 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LAW 194

LAW 196 Part-Time Cooperative Education 6: Legal Assistant 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: LAW 195

LAW 198 First Year Special Topics in Law 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Law, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LAW 199 First Year Independent Project in Law 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Law that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Law faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LAW 210 Litigation

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on concepts and processes of criminal and civil litigation. Topics include: parties to lawsuits, pleadings, motion practice, Federal Rules of Civil and Criminal Procedure, Federal Rules of Evidence, discovery, trial judgments, and alternative dispute resolution. Students must attend field trips and work with a law clinic offering services to

Prerequisites: LAW 101 and ENG 101

LAW 290 Paralegal Capstone

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Students use knowledge and skills gained in previous courses to complete a project related to the duties of the paralegal.

Prerequisites: IM 225 and LAW 120 (minimum grade C for both)

LAW 291 Full-Time Cooperative Education 1: Legal Assistant 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

LAW 292 Full-Time Cooperative Education 2: Legal Assistant 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LAW 291

LAW 293 Full-Time Cooperative Education 3: Legal Assistant 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LAW 292

LAW 298 Second Year Special Topics in Law 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Law, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LAW 299 Second Year Independent Project in Law 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Law that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Law faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LBR

Courses

LBR 105 Introduction to Labor and Employee Relations 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of the historical, legal and structural status of management and labor in unionized and non-union environments in the public and private sectors. Topics include: labor history, modern labor federations, union organizing and certification, contract negotiation and administration, grievance and arbitration, and analysis of current labor issues.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

LBR 198 First Year Special Topics in Labor Relations 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Labor Relations, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LBR 199 First Year Independent Project in Labor Relations 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Labor Relations that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Labor Relations faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LBR 298 Second Year Special Topics in Labor Relations 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Labor Relations, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LBR 299 Second Year Independent Project in Labor Relations 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Labor Relations that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Labor Relations faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LDR

Courses

LDR 198 First Year Special Topics in Leadership 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Leadership that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LDR 200 Transformational Leadership in Practice 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on concepts and applications of transformational leadership. Topics include: recognizing leadership traits and styles, team leadership skills, and positive peer mentoring skills. Students in this course serve as peer mentors for students beginning their college career.

Prerequisites: PSY 105 (minimum grade B)

LDR 220 Critical Thinking in Leadership 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course that prepares students to apply critical thinking skills in leadership roles. Topics include: leadership applications of team building, problem solving, and creative thinking. Lab activities include simulations that prepare students for Collegiate Leadership Competition events.

Prerequisites: ENG 101 Instructor Consent Required

LDR 230 Ethical Leadership

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on concepts and approaches to applying ethics to leadership. Topics include: self-assessment of leadership skills, strategies for promoting ethical decision-making in varied situations, and meeting the ethical challenges of cultural diversity.

Prerequisites: PSY 105 (minimum grade B) and ENG 101 (minimum grade C)

LDR 240 Applied Leadership Theory

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on applying current interdisciplinary theories of leadership to the practice of leadership. Topics include: foundational and emerging research on leadership, social identity, in-group and out-group categorization, obedience and conformity, and persuasion.

Prerequisites: PSY 105 (minimum grade B) and ENG 101 (minimum

grade C)

LDR 290 Leadership Capstone

2 Credits. 2 Lecture Hours. 0 Lab Hour.

Students complete a project that applies the knowledge and skills gained from previous Leadership courses and experiences. Prerequisites: PSY 105 and LDR 200 (minimum grade B for both), and LDR 240 or MKT 220 (minimum grade C for both) Instructor Consent Required

LDR 298 Second Year Special Topics in Leadership 1-9 Credits, 9-Jan Lecture Hour, 0 Lab Hour,

A course on selected topics related to Leadership, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: PSY 105 (minimum grade B)

LH

Courses

LH 105 Horticulture Occupations

1 Credit. 1 Lecture Hour. 1 Lab Hour.

An introduction to horticulture occupations in the Cincinnati region. Topics include: job levels, working conditions, abilities needed, and benefits within the horticulture industries; resume preparation; interviewing; and business etiquette for the landscaping industry. Prerequisites: None

LH 110 Horticulture Science

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on plant classification, structures, physiology, and development, and the environmental conditions that affect plant growth.

Prerequisites: AFL 085 or appropriate placement test score

LH 115 Floral Design and Marketing

3 Credits, 2 Lecture Hours, 2 Lab Hours,

A course on concepts and techniques of floral design. Topics include: floral design styles, pricing, shop management, and specialized work such as weddings and funerals. Students must attend off-campus field trips.

Prerequisites: None

LH 120 Soil Science and Plant Nutrition

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on physical, chemical, and biological properties of soils. Topics include: soil formation; soil conservation; and properties of soils that affect plant growth, development, and health.

Prerequisites: AFL 085 or appropriate placement test score

LH 125 Turfgrass Management

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on principles and practices for management of turfgrass installations. Topics include: turfgrass identification, growth, uses, and establishment; and pest control. Students must attend field trips. Prerequisites: AFM 092 or appropriate placement test score

LH 130 Woody Plant Materials

3 Credits. 1 Lecture Hour. 5 Lab Hours.

A course on woody plants grown by nurseries and found in the landscape and in naturalized settings of Ohio. Topics include: identifying the features and landscape uses of deciduous and evergreen trees, shrubs, and vines. Students must attend weekly plant walk field trips.

Prerequisites: AFL 085 or appropriate placement test score

LH 135 Herbaceous Plant Materials

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on annual, biennial, and non-woody plants commonly used in landscapes of the greater Cincinnati region. Topics include: identification, culture, and design uses of plants for landscapes. Prerequisites: AFL 085 or appropriate placement test score

LH 140 Landscape Operations

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on equipment used for landscape activities such as planting trees and shrubs and maintaining landscaped areas. Topics include: job safety; and operations of equipment such as loaders, backhoes, tractors, and commercial mowers. Students must attend field trips. Prerequisites: None

LH 145 Horticulture Mechanics

3 Credits, 2 Lecture Hours, 2 Lab Hours,

An introduction to the mechanical systems used in the landscape industry. Topics include small engine theory, operation, and repair; gasoline and diesel fuels; hydraulic power systems; and traditional and alternative electrical systems.

Prerequisites: None

LH 151 Landscape Design 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on landscape development for residential and small commercial sites. Topics include: the design process, proper design development, and graphics and lettering. Students must provide their own drawing tools and must attend field trips.

Prerequisites: AFL 085 or appropriate placement test score

LH 155 Computer-Aided Landscape Design

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on techniques for using computers in landscape design and contracting. Topics include: generating plot plans, planting plans, and presentation drawings.

Prerequisites: AFL 085 or appropriate placement test score

LH 160 Irrigation Design, Installation, and Management 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on designing, installing, and managing residential and commercial irrigation systems. Students must participate in field work. Prerequisites: LH 125 and LH 151 (minimum grade C for both)

LH 165 Landscape Construction

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on techniques and use of materials for constructing and installing landscape planting features and structures such as gardens, terraces, walls, fences, mounds, ponds, irrigation, and outdoor lighting. Students must participate in field work.

Prerequisites: LH 151 (minimum grade C)

LH 170 From Field to Kitchen

3 Credits, 2 Lecture Hours, 3 Lab Hours,

A course on edible plants, herbs, and spices and their use in culinary preparations.

Prerequisites: None Instructor Consent Required

LH 175 Interior Plantscaping

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on the use of foliage and blooming plants to enhance interior areas of buildings. Topics include: classification, culture, and design applications.

Prerequisites: AFL 085 or appropriate placement test score

LH 191 Part-Time Cooperative Education 1: Landscape Horticulture

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

LH 192 Part-Time Cooperative Education 2: Landscape Horticulture

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 191

LH 193 Part-Time Cooperative Education 3: Landscape Horticulture

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 192

LH 194 Part-Time Cooperative Education 4: Landscape Horticulture

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 194

LH 195 Part-Time Cooperative Education 5: Landscape Horticulture

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: LH 195

LH 196 Part-Time Cooperative Education 6: Landscape Horticulture

1 Credit, 1 Lecture Hour, 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 195

LH 198 First Year Special Topics in Landscape Horticultur 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Landscape Horticulture, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LH 199 First Year Independent Project in Landscape Horticulture 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Landscape Horticulture that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Landscape Horticulture faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LH 205 Landscape Pests and Controls 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on identification, diagnosis, and control of common insect, disease, and weed pests in the landscape industry. Topics include: integrated pest management/plant health care principles, and Ohio Department of Agriculture Commercial CORE and Category 6d exams. Prerequisites: LH 110 and LH 130 and LH 135 (minimum grade C for all)

LH 210 Turfgrass Pests and Controls 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on identification, diagnosis, and control of common insect, disease, and weed pests of turfgrasses. Topics include: integrated pest management/plant health care principles, and Ohio Department of Agriculture Commercial CORE and Category 8 exams. Students must attend field trips.

Prerequisites: LH 110 and LH 125 (minimum grade C for both)

LH 215 Arboriculture

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on principles and techniques of the commercial arboriculture business. Topics include: trees and the environment; protection, diagnosis, and treatment of tree health problems; techniques for pruning, removal, and climbing; and job safety. Students must attend field trips.

Prerequisites: LH 110 (minimum grade C)

LH 225 Greenhouse Management and Plant Production 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on principles and practices for greenhouse management and plant production. Topics include: greenhouse structures and maintenance, and managing environmental conditions vital to plant growth. Students must attend field trips.

Prerequisites: LH 110 and LH 135 (minimum grade C for both)

LH 230 Landscape Solutions to Stormwater Management 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on using landscaping to manage stormwater and water runoff. Topics include: the ecology, design, installation, and maintenance of water management and retention systems including bioswales, green roofs, and rain gardens. Students must attend field trips.

Prerequisites: LH 110 and LH 120 and LH 151 (minimum grade C for all)

Cincinnati State

LH 240 Landscape Management

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on principles and practices of management used in the landscape industry. Topics include: seasonal planning for landscape maintenance, contracts and specifications, cost estimating, business management, and personnel management. Students must attend field trips.

Prerequisites: LH 110 and LH 120 and LH 130 (minimum grade C for all), and AFM 092 or appropriate placement test score

LH 245 Plants for Sustainable Landscapes 3 Credits, 2 Lecture Hours, 3 Lab Hours.

A course on identification, culture, and uses of nursery-grown woody and herbaceous plants in Cincinnati-area sustainable landscapes. Topics include: using native species appropriately, and controlling invasive species. Students must attend weekly field trips. Prerequisites: LH 130 and LH 135 and LH 151(minimum grade C for all)

LH 252 Landscape Design 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on application of design theory to develop creative solutions to landscape problems. Topics include: graphic skills such as section, elevation, isometric and perspective techniques; construction plans; interaction with clients; and sales presentations. Students must attend field trips.

Prerequisites: LH 130 and LH 140 and LH 151 (minimum grade C for all)

LH 255 Golf Course and Athletic Field Management 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on techniques for golf course and athletic field management. Topics include: layout and construction, course/field management systems, maintenance, budgeting, record-keeping, golf-specific turf care, turfgrass selection and enhancement, practices for playability enhancement, field set-up, and renovation of existing fields. Students must attend field trips.

Prerequisites: LH 125 (minimum grade C) and instructor consent Instructor Consent Required

LH 265 Landscape Grading, Drainage, and Surveying 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on landscape site preparation. Topics include: site assessment, establishing grades, soil conservation and improvement, surface and sub-surface drain systems, cut-and-fill calculations, and safe operation of equipment. Students must attend field trips. Prerequisites: LH 151 (minimum grade C) and AFM 092 or appropriate placement test score

LH 290 Sustainable Landscape Design Capstone 3 Credits. 2 Lecture Hours. 3 Lab Hours.

Students complete a project while examining the landscape designer's role in restoring and protecting habitats. Topics include: site choice, stormwater controls, xeriscaping, criteria for LEED and other certifications, and techniques for landscape features such as green roofs and rain gardens. Students must attend field trips.

Prerequisites: LH 151 and LH 155 and LH 230 and LH 245 (minimum grade C for all)

LH 291 Full-Time Cooperative Education 1: Landscape Horticulture

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

LH 292 Full-Time Cooperative Education 2: Landscape Horticulture

2 Credits, 1 Lecture Hour, 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 291

LH 293 Full-Time Cooperative Education 3: Landscape Horticulture

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: LH 292

LH 298 Second Year Special Topics in Landscape Horticulture 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Landscape Horticulture, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LH 299 Second Year Independent Project in Landscape Horticulture

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Landscape Horticulture that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Landscape Horticulture faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LIT

Courses

LIT 198 First Year Special Topics in Literature 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Literature, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LIT 199 First Year Independent Project in Literature 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Literature that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Literature faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

LIT 200 Introduction to Literature

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on strategies for critical reading and analysis of literature using a variety of interpretive approaches.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 210 The Short Story

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Introduction to short fiction as a literary form, emphasizing critical reading and analysis. Works studied represent a variety of periods, styles, and cultures.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 220 Poetry

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Introduction to poetry as a literary form, emphasizing critical reading and analysis. Poems studied represent a variety of periods, styles, and cultures.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 230 Drama

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Introduction to drama as a literary form, emphasizing critical reading and analysis. Plays studied represent a variety of periods and styles.

Out-of-class viewing of plays on video is required.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 240 The Novel

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Introduction to the novel as a literary form, emphasizing critical reading and analysis. Works studied represent a variety of periods, styles, and cultures.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 251 American Literature to 1865

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Chronological survey of the works of American authors from the colonial period to 1865 with discussion of the major historical and cultural issues of the times.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

LIT 252 American Literature since 1865

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Chronological survey of the works of American authors from 1865 to present with discussion of the major historical and cultural issues of the

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

LIT 255 African American Literature

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of major themes and forms in writing by African American and Afro-Caribbean authors from slavery to the present.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 261 British Literature: Medieval Period to 1800

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Chronological survey of major works of British literature from the Medieval period to 1800 with discussion of the major historical and cultural issues of the times.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

LIT 262 British Literature: 1800 to Present 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Chronological survey of major works of British literature from the 1800s to present with discussion of the major historical and cultural issues of the times.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

LIT 265 Shakespeare

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of six to eight of Shakespeare's best-known plays, emphasizing issues facing modern interpreters of these classic works. Students view at least two plays on video in class. Additional out-of-class viewing of plays on video is required.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 270 Children's Literature

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Introduction to children's literature, emphasizing critical reading and analysis. Works studied represent a variety of genres, styles, and

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 280 Science Fiction

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Introduction to themes and forms in science fiction from the late 19th century to the present, emphasizing critical reading and analysis of varied works and their cultural and technological context.

Prerequisites: 6 credit hours of English Composition

Ohio Transfer Module Approved

LIT 285 Women Writers

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of major themes and forms in women's writing from a variety of periods and cultures, beginning with the 18th century, and including American ethnic women.

Prerequisites: 6 credit hours of English composition

Ohio Transfer Module Approved

LIT 298 Second Year Special Topics in Literature 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Literature, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

LIT 299 Second Year Independent Project in Literature 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Literature that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Literature faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MA

Courses

MA 100 Clinical Procedures for Medical Assistants 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on concepts and skills for assisting the physician in a clinical office setting. Topics include: infection control, patient preparation and history taking, assisting with examinations, preparing and maintaining the examination room, and assisting in medical specialty procedures and tests.

Prerequisites: Medical Assisting Program Chair consent Instructor Consent Required

MA 105 Administrative Procedures for Medical Assistants 4 Credits, 2 Lecture Hours, 4 Lab Hours,

A course on concepts and skills for assisting in administrative areas of a medical office. Topics include: receiving patients, making appointments, handling mail and telephone communication, using medical office equipment, and maintaining equipment and supplies. Prerequisites: Medical Assisting Program Chair consent Instructor Consent Required

MA 110 Medical Office Laboratory Procedures 5 Credits, 3 Lecture Hours, 4 Lab Hours,

A course on concepts and skills for acquisition of samples and assessment of various diagnostic evaluations. Topics include: using laboratory equipment; maintaining quality assurance and quality control; collecting specimens; and carrying out procedures including hematology, serology, urinalysis, and chemistry.

Prerequisites: BIO 111, MA 100, MA 105 (minimum grade C for all)

MA 115 Pharmacology for Medical Assistants 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on clinical drug therapy in relation to the role of the medical assistant. Topics include: principles, terminology, modes of administration, and mechanisms of action of the major drug groups; drug interactions; and administration of various injection routes. Prerequisites: BIO 111, MA 100, MA 105 (minimum grade C for all)

MA 120 Medical Office Insurance Coding and Billing 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on procedures and regulations related to bookkeeping, accounting, and insurance in the medical office setting. Topics include: using superbills; coding claims using CPT, ICD-9-CM, and HCPCS; electronic claims filing; and billing, collection, and reimbursement systems.

Prerequisites: MA 100, MA 105, MCH 100 (minimum grade C for all)

MA 125 Externship and Seminar for Medical Assistants 4 Credits. 2 Lecture Hours. 12 Lab Hours.

Students practice administrative and clinical skills during an unpaid experience in an ambulatory care setting. Students also prepare for the AAMA exam to become a Certified Medical Assistant.

Prerequisites: MA 110, MA 115, MA 120 (minimum grade C for all)

MA 198 First Year Special Topics in Medical Assisting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Medical Assisting, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

MA 199 First Year Independent Project in Medical Assisting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Medical Assisting that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Medical Assisting faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MA 298 Second Year Special Topics in Medical Assisting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Medical Assisting, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

MA 299 Second Year Independent Project in Medical Assisting 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Medical Assisting that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Medical Assisting faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MAA

Courses

MAA 191 Part-Time Cooperative Education 1: Medical **Administrative Assistant**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190

MAA 192 Part-Time Cooperative Education 2: Medical **Administrative Assistant**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MAA 191

MAA 193 Part-Time Cooperative Education 3: Medical **Administrative Assistant**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MAA 192

MAA 194 Part-Time Cooperative Education 4: Medical **Administrative Assistant**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

MAA 195 Part-Time Cooperative Education 5: Medical **Administrative Assistant**

1 Credit, 1 Lecture Hour, 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MAA 194

MAA 196 Part-Time Cooperative Education 6: Medical **Administrative Assistant**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MAA 195

MAA 291 Full-Time Cooperative Education 1: Medical **Administrative Assistant**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190

MAA 292 Full-Time Cooperative Education 2: Medical **Administrative Assistant**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MAA 291

MAA 293 Full-Time Cooperative Education 3: Medical **Administrative Assistant**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MAA 293

MAT

Courses

MAT 105 Quantitative Reasoning

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course that emphasizes numeracy, model-building, probability, and statistics in real-world contexts. Topics include proportional reasoning, linear and exponential modeling, descriptive statistics, personal finance, and using spreadsheets as a problem-solving tool. Students complete projects to apply course concepts.

Prerequisites: AFM 092 (minimum grade C) or appropriate placement test score

MAT 111 Business Mathematics

3 Credits, 2 Lecture Hours, 2 Lab Hours,

An algebra-based course on practical applications of mathematics. Topics include: review of arithmetic, algebra, and percents; payroll; banking; taxes; insurance; financial math, and elementary statistics. Students need a scientific calculator.

Prerequisites: AFM 092 (minimum grade C) or appropriate placement test score

MAT 115 Pre-Statistics

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on mathematical modeling of real data using curve fitting of functions. Topics include: modeling linear, linear systems, quadratic, exponential, and radical functions; and verifying the model using coefficient of determination and limitations of the model. Students need a graphing calculator.

Prerequisites: AFM 092 (minimum grade C) or appropriate placement test score

MAT 120 Technical Mathematics

3 Credits, 2 Lecture Hours, 2 Lab Hours,

A course on practical applications of algebra, geometry, and trigonometry. Topics include: percents, fractions, measurement, unit conversions, scientific notation, pre-algebra, basic algebra, plane and solid geometry, and right and oblique triangle trigonometry. Students need a scientific calculator.

Prerequisites: AFM 092 (minimum grade C) or appropriate placement test score

MAT 121 Technical Algebra and Geometry with Statistics 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on technical applications of algebra, geometry, and statistics. Topics include: simplifying algebraic expressions, solving equations (linear, quadratic, rational, and radical), graphing equations in two variables, inequalities, elementary statistics, right triangle trigonometry, and vectors. Students need a graphing calculator.

Prerequisites: AFM 094 (minimum grade A) or MAT 120 (minimum grade C) or appropriate placement test score

MAT 125 Algebra and Trigonometry 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on applications of algebra, geometry, and trigonometry. Topics include: simplifying algebraic expressions, right and oblique triangles, and solving equations (linear, quadratic, rational, and trigonometric). Students need a graphing calculator.

Prerequisites: AFM 097 (minimum grade C) or MAT 120 (minimum grade A) or MAT 121 (minimum grade C) or appropriate placement test score

MAT 126 Functions and Calculus

4 Credits, 3 Lecture Hours, 2 Lab Hours,

A continuation of MAT 125. Topics include: functions (linear, exponential, logarithmic, trigonometric, polynomial, and rational), complex numbers, graphing, solving equations, and applications of differential and integral calculus. Students need a graphing calculator. Prerequisites: MAT 125 (minimum grade C) or appropriate placement test score

MAT 131 Statistics 1

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on descriptive and inferential statistics. Topics include: the purpose of statistics, univariate and bivariate descriptive statistics, probability, normality and sampling distributions, confidence intervals, and hypothesis testing.

Prerequisites: AFM 097 or MAT 105 or MAT 115 or MAT 121 or MAT 150 (minimum grade C for all), or appropriate placement test score Ohio Transfer Module Approved

MAT 132 Statistics 2

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of MAT 131. Topics include: confidence intervals and hypothesis tests for two-sample means and proportions, contingency tables, one-way analysis of variance, and multiple regression.

Prerequisites: MAT 131 (minimum grade C)

Ohio Transfer Module Approved

MAT 151 College Algebra

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on concepts and applications of algebra. Topics include: representing linear, exponential, logarithmic, power, polynomial, and rational functions numerically, graphically, and algebraically. Students need a graphing calculator.

Prerequisites: AFM 097 or MAT 150 (minimum grade C for both), or appropriate placement test score

Ohio Transfer Module Approved

MAT 152 Trigonometry

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on concepts and applications of trigonometry. Topics include: trigonometric functions and identities, inverse of trigonometric functions, vectors, complex numbers, and parametric equations. Students need a graphing calculator.

Prerequisites: MAT 151 (minimum grade C) or appropriate placement test score

Ohio Transfer Module Approved

MAT 153 Pre-Calculus

6 Credits. 6 Lecture Hours. 0 Lab Hour.

A course on concepts and applications of pre-calculus. Topics include: review of linear, exponential, power, polynomial, and rational functions; trigonometric functions; trigonometry; vectors; complex numbers; and parametric equations. Students need a graphing calculator. Prerequisites: AFM 097 or MAT 150 (minimum grade B for both) or appropriate placement test score or instructor consent Ohio Transfer Module Approved

MAT 161 College Algebra for Diagnostic Medical Sonography 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on concepts and applications of algebra. Topics include: representing linear, exponential, logarithmic, power, polynomial, and rational functions numerically, graphically, and algebraically; and concepts of plane and solid geometry. Students need a graphing calculator.

Prerequisites: AFM 097 or MAT 150 (minimum grade C for both) or appropriate placement test score

MAT 198 First Year Special Topics in Mathematics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Mathematics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MAT 199 First Year Independent Project in Mathematics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Mathematics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Mathematics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MAT 215 Business Calculus

6 Credits. 6 Lecture Hours. 0 Lab Hour.

A course on calculus emphasizing business applications. Topics include: analysis of functions using limits, the derivative and derivative function, rules of differentiation, applications of derivative calculus, and the definite integral. Students need a graphing calculator.

Prerequisites: MAT 151 (minimum grade C)

Ohio Transfer Module Approved

MAT 251 Calculus 1

5 Credits. 5 Lecture Hours. 0 Lab Hour.

A course on concepts and applications of calculus. Topics include: the library of functions, analysis of functions with limits, the derivative and the derivative function, interpretations of the derivative, rules of differentiation, and introduction to integral calculus. Students need a graphing calculator.

Prerequisites: MAT 126 or MAT 152 or MAT 153 (minimum C grade) or appropriate placement test score

Ohio Transfer Module Approved

MAT 252 Calculus 2

5 Credits. 5 Lecture Hours. 0 Lab Hour.

A continuation of MAT 251. Topics include: methods of integration (substitution, parts, tables, numerical and CAS) with modeling applications, sequences and series, Taylor series approximations, and solutions to differential equations. Students need a graphing calculator. Prerequisites: MAT 251 (minimum grade C) or appropriate placement test score

Ohio Transfer Module Approved

MAT 253 Calculus 3

5 Credits. 5 Lecture Hours. 0 Lab Hour.

A continuation of MAT 252. Topics include: vectors and vector-valued functions; functions of several variables; partial derivatives and directional derivatives with gradients; tangent planes and local linearization; and optimization methods with Lagrange multipliers, iterated integration, and calculus of vector fields. Students need a graphing calculator.

Prerequisites: MAT 252 (minimum grade C) or approprate placement

test score

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

MAT 260 Elementary Differential Equations 4 Credits. 4 Lecture Hours. 0 Lab Hour.

An introduction to topics involving ordinary differential equations.

Topics include: solutions to and applications of first-order and linear higher-order differential equations, series solutions near ordinary and regular singular points, and Laplace transforms.

Prerequisites: MAT 252 (minimum grade C)

MAT 298 Second Year Special Topics in Mathematics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Mathematics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MAT 299 Second Year Independent Project in Mathematics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Mathematics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Mathematics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MCH

Courses

MCH 100 Healthcare Informatics

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on technology used in the healthcare delivery system and electronic health records (EHR) management. Topics include: hardware, software, user interfaces, telecommunications and networks, and health management information systems.

Prerequisites: IM 105 or 20 wpm keyboarding speed

MCH 101 Medical Terminology 1

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the basic structure of medical words and abbreviations. Topics include: prefixes, suffixes, word roots, combining forms, and singulars and plurals.

Prerequisites: AFL 085 or appropriate placement test score

MCH 102 Medical Terminology 2

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A continuation of MCH 101. Topics include: defining, pronouncing, and spelling medical terms using prefixes, suffixes, roots, and combined forms.

Prerequisites: MCH 101 (minimum grade C)

MCH 104 Comprehensive Medical Terminology 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A comprehensive study of medical terminology. Topics include: prefixes, suffixes, word roots, combining forms, singulars and plurals, and abbreviations associated with medical specialties.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Assurance Guide Approved

Ohio Career-Technical Assurance Guide Approved

MCH 106 Health and Wellness Promotion

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on promoting health and wellness issues to the public. Topics include: self-empowerment, stress reduction, physical fitness, healthy eating, addiction avoidance, identifying and reducing risk factors in disease, and alternative therapies.

Prerequisites: None

MCH 108 Professionalism in Healthcare

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on professional standards applicable in healthcare settings. Topics include: communication skills, employability skills, healthcare teams, diversity, career planning, and professional development. Prerequisites: AFL 080 or appropriate placement test score

MCH 110 Orientation to Health Records

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the content and format of health records. Topics include: standard forms, legal issues related to health records, maintaining health records, and filing and retrieving diagnostic reports.

Prerequisites: MCH 101 (minimum grade C), and IM 105 or appropriate keyboarding score

MCH 112 Issues in Health Economics 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on current trends and concerns related to the economics of health care systems. Topics include: economic differences between medical care and other commodities.

Prerequisites: None

MCH 114 Law and Ethics for Healthcare 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on fundamentals of medical jurisprudence and essentials of professional behavior in healthcare. Topics include: medical ethics, legal concerns in healthcare, and the healthcare provider's role as an agent of the physician.

Prerequisites: AFL 085 or appropriate placement test score

MCH 116 Cultural Competency for Health and Public Safety Professions

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the influences of race, culture, and ethnicity in shaping values, belief systems, and behaviors of Health and Public Safety professionals and patients/clients.

Prerequisites: ENG 101

MCH 118 Quality Improvement in Healthcare 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on quality improvement in healthcare, focused on patient-centered care. Topics include: organizations responsible for healthcare accreditation and regulation, healthcare provider departments that address regulations, and trends affecting delivery of quality healthcare

Prerequisites: AFL 085 or appropriate placement test score

Cincinnati State

MCH 120 Health Unit Coordinator Training 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on skills required for entry-level medical clerical workers. Topics include: patient charts, transcribing nursing treatment, using computer software, medication, respiratory and physical therapy orders, X-ray and MRI scan procedures, nuclear medicine, ultrasound, and endoscopy.

Prerequisites: MCH 101 or MCH 104 (minimum grade C for either)

MCH 130 Nurse Aide Training

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on caring for the elderly in long-term care facilities. Topics include: communication skills, mental health and social service needs, resident rights, activities of daily living, safety, and restorative services. Students who complete the course at 80% or above are qualified to take the Ohio Department of Health Competency Evaluation Test for a State Tested Nurse Aide (STNA).

Prerequisites: None

Instructor Consent Required

MCH 132 Patient Care Assistant Training 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course that prepares students for employment in acute care facilities as nursing assistive personnel. Topics include: role definition/classification, communication, basic anatomy/physiology concepts with associated observations, overview of nutrition/diet therapy, introduction to common pathologies, and commonly delegated skills.

Prerequisites: AFL 085 or appropriate placement test score, and MCH 130, and on State Nurse Aide Registry or eligible for Registry Instructor Consent Required

MCH 134 Medication Aide Training 6 Credits. 4 Lecture Hours. 4 Lab Hours.

A course that prepares students to distribute medications in long-term care and residential care facilities, through a minimum of 80 hours of lecture and laboratory practice and 40 hours of clinical experience. Prerequisites: MCH 130, and on State Nurse Aide Registry or have one year of experience in a residential care setting Instructor Consent Required

MCH 136 Restorative Aide Training

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on rehabilitation services used to return individuals to optimal mobility and functioning following various conditions. Topics include: lifting, moving, and ambulation procedures; care of individuals with musculoskeletal, neurological, and integumentary conditions; and restorative approaches to meeting nutrition, hydration, and personal care needs.

Prerequisites: MCH 130, and on State Nurse Aide Registry or eligible for Registry

Instructor Consent Required

MCH 138 Patient Care Skills

2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on fundamental health care concepts and skills for students planning a career in healthcare. Topics include: basic body mechanics, patient draping techniques, infection control techniques, oxygen therapy, and problem solving techniques.

Prerequisites: None

MCH 141 Electrocardiography 1

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on basic principles of electrocardiography. Topics include: the electrical conductive system of the heart, patient preparation, setting up the ECG machine, and recognizing and correcting distortion problems.

Prerequisites: BIO 100 or BIO 111 or BIO 151 (minimum grade C for all)

MCH 142 Electrocardiography 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of MCH 141, including review of basic electrocardiography and 12 lead ECG interpretation. Topics include: cardiac electrophysiology, recognizing common dysrhythmia and advanced cardiac dysrhythmias, chamber enlargement, pacemakers, myocardial ischemia, injury, infarct patterns, and effects of drugs and electrolytes on the ECG.

Prerequisites: MCH 141 (minimum grade C), or certification in EMT, Paramedic, Nursing, or Practical Nursing

MCH 198 First Year Special Topics in Multi-Competency Health Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Multi-Competency Health Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

MCH 199 First Year Independent Project in Multi-Competency Health Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Multi-Competency Health Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Multi-Competency Health Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

MCH 298 Second Year Special Topics in Multi-Competency Health Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Multi-Competency Health Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F

Prerequisites: None

MCH 299 Second Year Independent Project in Multi-Competency Health Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Multi-Competency Health Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Multi-Competency Health Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MET

Courses

314

MET 100 Introduction to Mechanical Engineering Technology 2 Credits. 1 Lecture Hour. 2 Lab Hours.

An orientation to the Mechanical Engineering Technology program and the profession. Topics include: computers and software used in the profession, career opportunities, professional skills, and preparation for cooperative education.

Prerequisites: AFL 085 or MAT 120, or appropriate placement test scores

MET 111 Manufacturing Processes 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to machining and fabrication. Topics include: measuring techniques, manual and computer numerical controlled metal removal processes, machine operations, and materials considerations.

Prerequisites: AFL 085 and MAT 120, or appropriate placement test

MET 112 Manufacturing Processes 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of MET 111. Topics include: CNC programming of complex parts on two-axis mills and lathes, and CNC control. Prerequisites: MET 111 (minimum grade C), and MET 131, and MAT 121 or MAT 125, or appropriate placement test score

MET 113 Manufacturing Processes 3

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of MET 112. Topics include: CAM simulation, machining processes, prototyping techniques, and using CAD/CAM software to create programs for producing components on CNC machines. Prerequisites: MET 112 (minimum grade C)

MET 131 MET Computer Aided Drafting 1 3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to mechanical drafting and computer aided drafting. Topics include: geometric construction, orthographic projection, dimensioning, section views, and auxiliary views.

Prerequisites: AFL 085 and MAT 120, or appropriate placement test scores

Ohio Transfer Assurance Guide Approved

Ohio Career-Technical Assurance Guide Approved

MET 132 MET Computer Aided Drafting 2 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of MET 131. Topics include: 3D modeling, geometric dimensioning and tolerancing, and creating assembly models.

Prerequisites: MET 131 (minimum grade C)

MET 140 Engineering Materials

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on the materials used in designing and manufacturing machinery and products. Topics include: steel and non-ferrous metals, polymers, ceramics, and composites. Students use the materials testing laboratory to study physical and mechanical properties of materials.

Prerequisites: MET 111, and MAT 121 or MAT 125 or appropriate placement test scores

Ohio Transfer Assurance Guide Approved

MET 150 Statics and Strength of Materials for MET 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on analyzing forces that occur within machine and structural elements subjected to various types of loads. Topics include: vector panalysis, free body diagrams, individual stresses, and combined stresses.

Prerequisites: MAT 121 or MAT 125 or appropriate placement test

MET 191 Part-Time Cooperative Education 1: Mechanical **Engineering Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MET 100

MET 192 Part-Time Cooperative Education 2: Mechanical **Engineering Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 191

MET 193 Part-Time Cooperative Education 3: Mechanical **Engineering Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MET 192

MET 194 Part-Time Cooperative Education 4: Mechanical **Engineering Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MET 193

MET 195 Part-Time Cooperative Education 5: Mechanical **Engineering Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 194

MET 196 Part-Time Cooperative Education 6: Mechanical Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 195

MET 198 First Year Special Topics in Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Mechanical Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

MET 199 First Year Independent Project in Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Mechanical Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Mechanical Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

MET 230 Quality Control and Six Sigma 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on modern quality methods used in manufacturing. Topics include: data collection, statistical process control, continuous improvement, and the reduction of product defects through the six-sigma process.

Prerequisites: MET 150

MET 240 Hydraulics and Pneumatics

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on applied fluid power systems. Topics include: fluid transport, power systems components and circuits, relay logic, and ladder diagrams. Students design, build, and operate hydraulic and pneumatic circuits in the laboratory.

Prerequisites: MET 150

MET 250 Machine Design

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on applying principles of engineering mechanics and strength of materials to the analysis and selection of mechanical components. Topics include: combined stresses, failure theories, shaft components, shaft design, and fasteners.

Prerequisites: MET 140 and MET 150 (minimum grade C for both)

MET 260 Applied Thermodynamics

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course in the engineering study of energy. Topics include: first and second laws of thermodynamics, general energy equation, Mollier diagrams, ideal cycles, steam generation and turbines, and refrigeration.

Prerequisites: MET 150, and MAT 121 or MAT 125 or appropriate placement test scores

MET 270 Kinematics

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on analyzing mechanisms. Topics include: linear and angular displacement, velocity, acceleration, mass moment of inertia, and dynamic balance. Students use computer simulation software to analyze machine motions and forces.

Prerequisites: MET 150 and PHY 151

MET 285 Mechanical Engineering Technology Capstone Project 1 3 Credits. 2 Lecture Hours. 3 Lab Hours.

Students participate in a team design project. Topics include: feasibility study, design concepts, detail and assembly drawings, bill of materials, commercial and fabricated parts, vendors, costs, and manufacturing. Prerequisites: MET 111 and MET 132 and MET 140 and MET 150 (minimum grade C for all)

MET 290 Mechanical Engineering Technology Capstone Project 2 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of MET 285. Students manufacture, assemble, and test the product designed in MET 285, and prepare a presentation on the complete design process.

Prerequisites: MET 285

MET 291 Full-Time Cooperative Education 1: Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 100

MET 292 Full-Time Cooperative Education 2: Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 291

MET 293 Full-Time Cooperative Education 3: Mechanical Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 292

MET 294 Internship 1: Mechanical Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 100

MET 295 Internship 2: Mechanical Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MET 294

MET 298 Second Year Special Topics in Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Mechanical Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

MET 299 Second Year Independent Project in Mechanical Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Mechanical Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Mechanical Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

MGT

Courses

MGT 101 Principles of Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the history and fundamental concepts of modern management. Topics include: planning, leading, organizing and controlling; global and domestic environments for management; change management; quality management; team management; and communication skills for managers.

Prerequisites: AFL 080 or appropriate placement test score Ohio Transfer Assurance Guide Approved

MGT 105 Human Resource Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the role of the human resource department and the supervisor's role in various human resource functions. Topics include: recruiting, choosing, and training employees; compensation and benefits; performance evaluation; disciplinary actions; and workplace rights and responsibilities.

Prerequisites: None

MGT 120 Entrepreneurship 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on starting and growing new businesses. Topics include: identifying new venture opportunities, evaluating the viability of a new venture, and understanding skills needed for successful business operations. Students prepare a business plan for potential investor review.

Prerequisites: ACC 101

MGT 125 Business Ethics

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles of business ethics and moral reasoning. Topics include: corporate disclosure, discrimination, whistle blowing, computer crime, and international ethics.

Prerequisites: None

MGT 130 Project Management

3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to project management in various industries. Topics include: planning and prioritizing projects, obtaining project approvals, working with diverse teams, managing all elements of projects, evaluating project results, and using Microsoft Project software. Prerequisites: None

MGT 131 Project Management Professional Certification Review 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamentals of project management in various industries. Topics include: planning and prioritizing projects, obtaining project approvals, working with diverse teams, managing all elements of projects, evaluating project results, and using Microsoft Project software. This course satisfies the education requirement to sit for the PMP (Project Management Professional) exam.

Prerequisites: None

MGT 140 Quality Management

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques of quality management and continuous improvement for manufacturing and service organizations. Topics include: establishing a customer driven organization, and using effective feedback and control systems.

Prerequisites: MGT 100 or MGT 101

MGT 191 Part-Time Cooperative Education 1: Management 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: BUS 190 (minimum grade C)

MGT 192 Part-Time Cooperative Education 2: Management 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MGT 191

MGT 193 Part-Time Cooperative Education 3: Management 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MGT 192

MGT 194 Part-Time Cooperative Education 4: Management 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MGT 193

Cincinnati State

MGT 195 Part-Time Cooperative Education 5: Management 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MGT 194

MGT 196 Part-Time Cooperative Education 6: Management 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MGT 195

MGT 198 First Year Special Topics in Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MGT 199 First Year Independent Project in Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MGT 220 Leadership

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the role of successful integrative leaders in organizations. Topics include: historical and contemporary approaches to leadership, leadership for change, team leadership, servant leadership, and communication skills for leaders.

Prerequisites: MGT 100 or MGT 101

MGT 290 Business Management Capstone 3 Credits. 2 Lecture Hours. 2 Lab Hours.

Students use case studies and simulations to examine the entire scope of management, including functional and decision making areas such as production, management, marketing, finance, and accounting. Prerequisites: MGT 100 or MGT 101, MKT 101, ACC 101

MGT 291 Full-Time Cooperative Education 1: Management 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

MGT 292 Full-Time Cooperative Education 2: Management 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MGT 291

MGT 293 Full-Time Cooperative Education 3: Management 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MGT 292

MGT 298 Second Year Special Topics in Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MGT 299 Second Year Independent Project in Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MID

Courses

MID 100 Multimedia Information Design Career Exploration Seminar

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using research and personal reflection to develop a strong foundation for selecting an academic program/major and planning a career related to Multimedia Information Design. Topics include: analyzing interests, abilities, and values; reviewing academic and personal requirements for related programs/majors; and examining career outcomes including salary, job availability, advancement opportunities, and other factors.

Prerequisites: None

MID 110 Digital Media Concepts

3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introduction to operating systems, software, hardware, and peripheral equipment used to create, revise, and produce content for multimedia products.

Prerequisites: AFL 085 or appropriate placement test score

MID 120 Drawing Fundamentals for Multimedia Information Design

3 Credits, 2 Lecture Hours, 3 Lab Hours,

A course on fundamental drawing techniques used in multimedia fields. Topics include: sketching, 3-D drawing, conceptual drawing, and architectural drawing.

Prerequisites: None

MID 125 Storyboarding

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on fundamentals of storyboarding for video, animation, multimedia, and web. Topics include: traditional drawing and digital illustration, image acquisition and composition, shot framing and description, and industry standards for labeling.

MID 190 Career Preparation: Multimedia Information Design 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on career planning for students seeking employment in Multimedia Information Design fields. Topics include: self-assessment, career research, resume development, interview skills and job hunting strategies, and cooperative education policies and procedures. Prerequisites: ART 125 or AVP 100 (minimum grade C for both)

MKT

Courses

MKT 101 Principles of Marketing

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on marketing activities, strategies, and decision making in the context of other business functions.

Prerequisites: None

Corequisites: ECO 105: Principles of Microeconomics

Ohio Transfer Assurance Guide Approved

MKT 105 Marketing and Customer Relations 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamentals of marketing and the development of business systems that provide positive and memorable customer experiences.

Prerequisites: None

MKT 115 Marketing Research for Multimedia Profes 3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to marketing fundamentals applied by professionals in multimedia fields. Topics include: marketing terminology: concepts and strategies used to create consumer relationships and deliver value through goods and services; and research techniques for collecting, analyzing, and interpreting data used to develop effective marketing strategies and communications.

Prerequisites: None

MKT 130 Professional Selling

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on professional sales skills, including business-to-consumer and business-to-business sales using a consultative approach. Topics include: prospecting, sales pre-planning, writing sales proposals, delivering sales presentations, preventing and handling objections, negotiations, closing the sale, post-sales service, and customer relations management (CRM) systems.

Prerequisites: None

MKT 161 Branding and Product Development 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on branding trends and practices, focusing on entrepreneurial and small business owner perspectives. Topics include: applying branding principles to develop successful new products, identifying opportunities, generating and evaluating concepts, designing the product, and launching the product and brand identity. The course is delivered in a 5-week schedule.

Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 162 Sales Promotion

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on sales promotion practices. Topics include: the role of sales promotion in the marketing plan and media mix; consumer and business-to-business sales methods; vendor analysis and selection; price promotions, point-of-purchase promotions, and joint promotions; and vouchers, gift cards, premiums, prizes, sampling, contests, and sweepstakes. The course is delivered in a 5-week schedule.

Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 163 Services and Non-Profit Marketing 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on characteristics of non-profit organizations and serviceoriented businesses and their target customers. Topics include: technology used for fund-raising, market services, customer communications, and integration of consistent internal and external brand messages. The course is delivered in a 5-week schedule. Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 164 Social Media and Consumer Engagement

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on using social media networks to increase brand awareness and consumer engagement for products, services and ideas. Topics include: understanding consumer mindsets on social networks such as Facebook and Twitter, and developing effective marketing communication through social media. The course is delivered in a 5week schedule.

Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 191 Part-Time Cooperative Education 1: Marketing 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: BUS 190 (minimum grade C)

MKT 192 Part-Time Cooperative Education 2: Marketing 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MKT 191

MKT 193 Part-Time Cooperative Education 3: Marketing 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MKT 192

MKT 194 Part-Time Cooperative Education 4: Marketing 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MKT 193

MKT 195 Part-Time Cooperative Education 5: Marketing 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MKT 194

MKT 196 Part-Time Cooperative Education 6: Marketing 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MKT 195

MKT 198 First Year Special Topics in Marketing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Marketing, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MKT 199 First Year Independent Project in Marketing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Marketing that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Marketing faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MKT 205 Marketing Research

3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to marketing research emphasizing use of research data in marketing and management decisions. Topics include: designing a market research study, using data collection and measurement tools, performing data analyses, using online and social media tools, and communicating research findings.

Prerequisites: MKT 101

MKT 215 Advertising and Public Relations 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques used in public relations, advertising, and other promotional methods. Topics include: consumer behavior, agency and client relationships, integrated marketing communications, developing and executing creative strategy, and selecting appropriate media for advertising effectiveness.

Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 231 Direct and Database Marketing 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on direct marketing practices. Topics include: direct marketing as a component of company marketing strategies; response techniques for direct mail, catalogs, TV/radio, internet, display, and classified advertising; database creation; copy testing; and list evaluation. The course is delivered in a 5-week schedule.

Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 232 Integrated Marketing Communications 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on using integrated marketing communications (IMC) to manage and coordinate an organization's advertising, public relations, sales promotion, and personal selling efforts. Topics include: IMC planning, agency operations, defining target audiences, setting and allocating budgets, implementing advertising, selecting advertising media, and evaluating IMC. The course is delivered in a 5-week schedule.

Prerequisites: MKT 215

MKT 233 Sales Management

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on sales management practices. Topics include: recruiting, hiring, motivating, and evaluating salespeople; developing a sales training program; compensation models; budgets and sales forecasting; time and territory management; and ethical and legal responsibilities of sales managers. The course is delivered in a 5-week schedule.

Prerequisites: MKT 130

MKT 250 Digital Marketing and Social Media 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theory and practice of digital marketing. Topics include: search engine marketing (SEM), search engine optimization (SEO), paid search and pay-per-click advertising (PPC), online display advertising, digital analytics, e-mail marketing, e-commerce, and social media and mobile marketing.

Prerequisites: MKT 101 or MKT 105 or MKT 115

MKT 291 Full-Time Cooperative Education 1: Marketing 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

MKT 292 Full-Time Cooperative Education 2: Marketing 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit.

Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MKT 291

MKT 293 Full-Time Cooperative Education 3: Marketing 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MKT 292

MKT 298 Second Year Special Topics in Marketing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Marketing, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MKT 299 Second Year Independent Project in Marketing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Marketing that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Marketing faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MLT

Courses

MLT 100 Introduction to Medical Laboratory Analy 4 Credits, 2 Lecture Hours, 6 Lab Hours,

A course on equipment and processes of the clinical laboratory and the responsibilities of the Medical Laboratory Technician. Topics include pipetting, spectrophotometry, safety, point of care testing, and the chemical, physical and microscopic analysis of urine.

Prerequisites: CHE 115 and MAT 151 and MLT Program Chair consent

Instructor Consent Required

MLT 121 Hematology and Hemostasis 1 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on theory and practice of normal hematology and hemostasis. Topics include: hematopoiesis, cell and platelet counts, cell identification, and prothrombin and partial prothrombin times. Prerequisites: CHE 115 and MAT 151 and MLT Program Chair consent

Instructor Consent Required

MLT 122 Hematology and Hemostasis 2 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of MLT 121. Topics include: hematopoiesis and abnormal cell identification, red cell abnormalities, anemias, leukemias, and coagulopathies.

Prerequisites: MLT 121

MLT 140 Clinical Chemistry

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on principles and procedures used in the chemical analysis of clinical specimens. Topics include: manual and automated chemical testing, quality control, and clinical correlations.

Prerequisites: MLT 100 and MLT 121

MLT 170 Instrumentation for Medical Laboratory Technicians 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A course on principles and procedures for instrumentation used in hematology, hemostasis, urinalysis and clinical chemistry. Topics include: set-up, operation, routine maintenance and quality control procedures for spectrophotometers, particle counters, electrodes, and other automated analyzers.

Prerequisites: MLT 100 and MLT 121

MLT 180 Phlebotomy Techniques and Practice for Medical **Laboratory Technicians**

2 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on theory and practice of blood collection used by medical laboratory technicians. Topics include: devices and methods, specimen integrity, communication, and professionalism. Students who develop the necessary skills also practice supervised blood collection at a clinical site.

Prerequisites: MLT 100 and MLT 121

MLT 181 Phlebotomy Techniques for MLT 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A two-week course on the equipment and techniques used to collect quality specimens for analysis. Topics include: communication with patients and staff, professional conduct, and daily practice of techniques using a model arm.

Prerequisites: MLT 122 and MLT 140

MLT 185 Clinical Laboratory Practice 6 Credits. 0 Lecture Hour. 30 Lab Hours.

Students apply skills in clinical chemistry, hematology, hemostasis, and urinalysis through on-campus laboratory practice. Students who develop the necessary skills also participate in an internship in these departments at a clinical site.

Prerequisites: MLT 140 and MLT 180

MLT 186 Hematology and Hemostasis Applications 1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students apply skills in hematology and hemostasis in an on-campus laboratory, performing tasks independently as part of a simulated lab setting. Students must adhere to HPS and MLT Clinical Practice Standards.

Prerequisites: MLT 122 and MLT 170

MLT 187 Clinical Chemistry and Urinalysis Applic 1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students apply skills in clinical chemistry and urinalysis in an oncampus laboratory, performing tasks independently in a simulated lab setting. Students must adhere to HPS and MLT Clinical Practice

Prerequisites: MLT 122 and MLT 170

MLT 191 Part-Time Cooperative Education 1: Medical Laboratory **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures in order to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MLT 185 (minimum grade C)

MLT 192 Part-Time Cooperative Education 2: Medical Laboratory **Technology**

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures in order to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: MLT 191 (minimum grade C)

MLT 198 First Year Special Topics in Medical Laboratory Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Medical Laboratory Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

MLT 199 First Year Independent Project in Medical Laboratory Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Medical Laboratory Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Medical Laboratory Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

MLT 210 Clinical Immunology and Serology 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the function of the immune system, and immunological and serological testing methods performed in clinical laboratories. Topics include: humoral and cell mediated immunity, hypersensitivity, infectious agents, enzyme immunoassay, immunoelectrophoresis, and basic molecular testing.

Prerequisites: MLT 295

Corequisites: MLT 261: Clinical Microbiology

MLT 250 Immunohematology

5 Credits. 3 Lecture Hours. 6 Lab Hours.

A course on theory and application of immunohematology procedures used in the clinical laboratory. Topics include: ABO and Rh, antibody screens and antibody identification, compatibility, enhancement techniques, and automated procedures.

Prerequisites: MLT 185

MLT 251 Immunohematology

4 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on the theory of immunohematology, emphazing laboratory techniques. Topics include: ABO and Rh, antibody screens and identification, compatibility, enhancement techniques, and donor requirements.

Prerequisites: MLT 210

MLT 252 Immunohematology Applications

1 Credit. 0 Lecture Hour. 3 Lab Hours.

A four-week course with students completing immunohematology procedures in an on-campus simulated laboratory setting. Students must adhere to HPS and MLT Clinical Practice Standards.

Prerequisites: MLT 251

MLT 260 Clinical Microbiology

6 Credits. 3 Lecture Hours. 9 Lab Hours.

A course on theory and application of procedures for clinical microbiology. Topics include: identification, antimicrobial susceptibility and clinical significance of bacteria; basic mycobacteriology; mycology; parasitology; and virology.

Prerequisites: MLT 250

MLT 261 Clinical Microbiology

5 Credits. 2 Lecture Hours. 9 Lab Hours.

A course on the theory and practice of clinical microbiology. Topics include: clinical significance, identification and antimicrobial susceptibility of pathogenic bacteria with introduction to other microorganisms.

Prerequisites: MLT 295

Corequisites: MLT 210: Clinical Immunology and Serology

MLT 262 Clinical Microbiology Applications

1 Credit. 0 Lecture Hour. 1 Lab Hour.

A two-week course with students completing clinical bacteriology procedures in an on-campus simulated laboratory setting. Students must adhere to HPS and MLT Clinical Practice Standards.

Prerequisites: MLT 261

MLT 270 Medical Laboratory Seminar

1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students review theories and procedures of medical laboratory technology to prepare for the certification exam. Topics include: laboratory operations, hematology, hemostasis, clinical chemistry, immunology, immunohematology, clinical microbiology, and test-taking strategies.

Prerequisites: MLT 210 and MLT 250 (minimum grade C for both)

MLT 294 MLT Internship: Specimen Collection

1 Credit. 0 Lecture Hour. 4 Lab Hours.

Students participate in specimen collection at an area laboratory or collection site, with emphasis on phlebotomy. Activities may include specimen processing. Students must adhere to HPS and MLT Clinical Practice Standards.

Prerequisites: MLT 181

MLT 295 MLT Clinical Internship

1 Credit. 0 Lecture Hour. 20 Lab Hours.

Students are assigned to a medical laboratory for full-time experience in hematology, hemostasis, clinical chemistry and urinalysis. Students must adhere to HPS and MLT Clinical Practice Standards.

Prerequisites: MLT 186 and MLT 187

MLT 298 Second Year Special Topics in Medical Laboratory Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Medical Laboratory Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

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MLT 299 Second Year Independent Project in Medical Laboratory Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Medical Laboratory Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Medical Laboratory Technology faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

MMC

Courses

MMC 100 Introduction to Mechanical Systems

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on mechanical systems found in a manufacturing facility. Topics include: mechanical power transmissions, bearings and shafts, lubrication, pumps and compressors, fluid power, and piping systems. Prerequisites: None

MMC 105 Shop Math

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course that reviews basic mathematical skills used in the maintenance trades. Topics include: decimals, fractions, percents, ratios, proportions, roots, and powers; basic algebra; and basic trigonometry.

MMC 110 MSSC Certified Production Technician Training 6 Credits. 6 Lecture Hours. 0 Lab Hour.

A course that addresses core competencies for production workers as defined by the Manufacturing Skills Standards Council. Students who complete the course successfully earn the MSSC Certified Production Technician credential.

Prerequisites: Admitted to MSSC Training Program Instructor Consent Required

MMC 111 MSSC Certified Logistics Associate Trai 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course that addresses core competencies for production workers whose job activities involve basic areas of logistics, as defined by the Manufacturing Skills Standards Council. Students who complete the course successfully earn the MSSC Certified Logistics Associate credential.

Prerequisites: Admitted to MSSC Training Program Instructor Consent Required

MMC 112 MSSC Certified Logistics Technician Tra 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course that addresses core competencies for production workers whose job activities involve advanced areas of logistics, as defined by the Manufacturing Skills Standards Council. Students who complete the course successfully earn the MSSC Certified Logistics Technician credential.

Prerequisites: MMC 111 Instructor Consent Required

MMC 115 Print Reading and Measurement Tools 1.5 Credit. 1 Lecture Hour. 0.5 Lab Hour.

A course on reading and understanding mechanical prints and using precision mechanical measuring tools.

Prerequisites: None

MMC 117 Tools, Machines, and Fabrication 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on the application and operation of hand tools, power tools, machine tools and other tools used in fabrication.

Prerequisites: None

MMC 118 Industrial Piping Systems

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on types and applications of industrial pipe systems. Topics include: sizing, identifying, and installing piping, fittings, and valves; and using systems including iron pipe, steel tubing, hydraulic hose, plastic pipe, and copper tubing.

Prerequisites: None

MMC 120 Pneumatic Systems 1

2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on fundamental principles and techniques of pneumatics. Topics include: maintenance, field repairs, and troubleshooting of pneumatic systems.

Prerequisites: None

MMC 125 Pneumatic Systems 2

2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of MMC 120 that provides additional understanding and practice in maintenance, field repairs, and troubleshooting of pneumatic systems.

Prerequisites: MMC 120

MMC 127 Rigging and Lifting

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on fundamental skills and applications for rigging, stressing inspection and safety. Topics include: industrial knots, rigging calculations, hand signals, gear selection, overhead crane operation, and lift operation.

Prerequisites: None

MMC 130 Hydraulic Systems 1

2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on fundamental principles and techniques of industrial hydraulics. Topics include: fluid conductors, seals, basic hydraulic symbols, construction, and operation and use of hydraulic pumps. Prerequisites: None

MMC 135 Hydraulic Systems 2

2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of MMC 130. Topics include: construction, operation, pressure controls, directional controls, flow controls, actuators, cartridge valves, stack valves, accumulators, heat exchangers, flow meters, and gauges.

Prerequisites: MMC 130

MMC 140 Mechanical Drive Systems

2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on fundamentals of mechanical transmission systems used in industrial applications. Topics include: operation, installation, performance analysis, and design of basic mechanical transmission systems; and using chains, v-belts, spur gears, bearings, and couplings.

Prerequisites: None

MMC 145 Preventive Maintenance for Mechanical Systems 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on concepts and methods for preventive maintenance, emphasizing vibration measurement and monitoring. Topics include: vibration analysis; tests, measurements, and adjustments; and parts replacement performed to prevent faults from occurring.

Prerequisites: None

MMC 147 Machine Leveling and Alignment

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on industrial equipment leveling and alignment procedures. Topics include: alignment instruments and tools, shaft runout, softfoot, piping strain, foundations, and anchor systems.

Prerequisites: None

MMC 150 Bearings, Seals, and Lubrication

1.5 Credit. 1 Lecture Hour. 1 Lab Hour.

A course on how to operate, install, analyze, troubleshoot, and select bearings, seals, and lubrication for mechanical systems.

Prerequisites: None

MMC 160 Industrial Pump Maintenance

1.5 Credit. 1 Lecture Hour. 1 Lab Hour.

A course on fundamentals of selecting, installing, and troubleshooting industrial centrifugal pumps. Topics include: pump operation, pressure/ flow characteristics, performance and efficiency, cavitation, seals, sizing, and maintenance.

MMC 170 Jet Engine Teardown

1.5 Credit. 1 Lecture Hour. 1 Lab Hour.

Jet Engine Teardown School (JETS) covers commercial jet design, components, and operating principles. Students tear down a commercial jet engine and fire up a working commercial jet engine. Prerequisites: None

MMC 180 Machining Processes

1.5 Credit. 1 Lecture Hour. 1 Lab Hour.

A course on interpreting engineering part drawings, determining the sequence of machining operations, selecting tooling, and preparing plans for machining and inspection to confirm that parts meet the requirements of the drawings.

Prerequisites: None

MMC 198 Special Topics in Mechanical Maintenance 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Mechanical Maintenance that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MMC 199 Special Projects in Mechanical Maintenan 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Mechanical Maintenance that gives students opportunities to study information not currently covered in other courses. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

MUS

Courses

MUS 100 Musical Concepts

3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to the fundamentals of music. Topics include: basic musical theory, melody, harmony, rhythm, notation, and ear training and note reading using popular and familiar tunes.

Prerequisites: None

MUS 101 Music History: Middle Ages to Late 19th Century 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of major periods in Western musical history from the Middle Ages to the late 19th century. Topics include: major composers and development of perceptive listening habits through analysis of compositional styles and techniques.

Prerequisites: None

Ohio Transfer Module Approved

MUS 102 Music History: 20th Century 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of major genres in Western music from the late 19th century through the 20th century. Topics include: symphony, opera, art song, musical theater, jazz, and popular music. This course emphasizes the study of music through the development of perceptive listening habits.

Prerequisites: None

Ohio Transfer Module Approved

MUS 105 Music History: African-American Music

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on evolution of African-American musical genres and their cultural and historical perspectives, from the beginning of slavery in America to the present.

Prerequisites: None

Ohio Transfer Module Approved

MUS 110 Jazz Appreciation

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the history of jazz from its origin to the present. Topics include: jazz styles, composers, and traditions.

Prerequisites: None

Ohio Transfer Module Approved

MUS 115 Rock and Pop Music

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the evolution of rock, pop, and related music genres from the early 20th century to the present. Topics include: the social, political, and cultural impact of popular music in the United States.

Prerequisites: None

Ohio Transfer Module Approved

MUS 120 World Music

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on musical forms, instrumental development, and the role of music in various ethnic cultures. Topics include: traditions, belief systems, and practices affecting music in the Americas, Europe, Africa, India, Indonesia, the Arab world, and China.

Prerequisites: None

Ohio Transfer Module Approved

MUS 131 Vocal Ensemble for Mixed Voices 1

1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students perform in their first semester as members of a mixedvoice ensemble, applying vocal techniques for singing accurately and blending with others. Music includes classical, sacred, and popular choral literature representing world languages and cultures.

Prerequisites: None

MUS 132 Vocal Ensemble for Mixed Voices 2

1 Credit. 0 Lecture Hour. 3 Lab Hours.

Prerequisites: MUS 131

MUS 133 Vocal Ensemble for Mixed Voices 3

1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students perform in their third semester as members of a mixedvoice ensemble, applying vocal techniques for singing accurately and blending with others.

Prerequisites: MUS 132

MUS 134 Vocal Ensemble for Mixed Voices 4

1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students perform in their fourth semester as members of a mixedvoice ensemble, applying vocal techniques for singing accurately and blending with others.

Prerequisites: MUS 133

MUS 135 Vocal Ensemble for Mixed Voices 5

1 Credit. 0 Lecture Hour. 3 Lab Hours.

Students perform in their fifth semester as members of a mixedvoice ensemble, applying vocal techniques for singing accurately and blending with others.

Prerequisites: MUS 134

MUS 198 First Year Special Topics in Music 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Music, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MUS 199 First Year Independent Project in Music 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Music that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Music faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

MUS 298 Second Year Special Topics in Music 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Music, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

MUS 299 Second Year Independent Project in Music 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Music that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Music faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

NET

Courses

NET 100 Introduction to Networking and IT Support 1 Credit. 1 Lecture Hour. 1 Lab Hour.

An introduction to the Networking Systems and PC Support and Administration programs and professions. Topics include: computers and software used in the fields, professional skills, and preparation for cooperative education.

Prerequisites: AFL 085 and AFM 095 or appropriate placement test scores

NETA

Courses

NETA 115 Networking Essentials

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on managing operating systems in a network environment. Topics include: topologies and technologies; network hardware; protocols; network standards; network problem solving; and network administration, support, and security.

Prerequisites: IT 115

NETA 120 Computer Virtualization

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on operating systems in a virtual environment. Topics include: fundamentals of virtualization, advantages of using virtual software, and installing virtual systems.

Prerequisites: AFL 085 and AFM 092, or appropriate placement test scores

NETA 125 Open Source Operating Systems and Applications 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the open source movement and essential operating systems and applications. Topics include: history of open source, the Linux operating system, file systems, and troubleshooting.

Prerequisites: IT 115

NETA 135 Information Technology Support Desk Concepts 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on fundamental operations and procedures of an information technology support desk. Topics include: product evaluation, roles and responsibilities, support management, needs assessment, and troubleshooting.

Prerequisites: IT 115

NETA 155 Server Administration 1 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on user administration for Microsoft Windows server technology. Topics include: installing servers, configuring server roles, deploying core network services, administering Active Directory, managing remote servers, and creating and managing group policy. This course prepares students for a Microsoft Certification exam. Prerequisites: NETC 121 or IT 115 (minimum grade C for both)

NETA 191 Part-Time Cooperative Education 1: Computer Network Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

NETA 192 Part-Time Cooperative Education 2: Computer Network Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: NETA 191

NETA 193 Part-Time Cooperative Education 3: Computer Network Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: NETA 192

NETA 194 Part-Time Cooperative Education 4: Computer Network Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETA 193

NETA 195 Part-Time Cooperative Education 5: Computer Network Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETA 194

NETA 196 Part-Time Cooperative Education 6: Computer Network Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETA 195

NETA 198 First Year Special Topics in Computer Network Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Network Administration, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval Instructor Consent Required

NETA 199 First Year Independent Project in Computer Network Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Network Administration that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Computer Network Administration faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval Instructor Consent Required

NETA 256 Server Adminstration 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of NETA 155. Topics include: deploying, managing, and maintaining servers; configuring file and print services; configuring Network Policy Server infrastructure; configuring and managing Active Directory; and managing group policy. This course prepares students for a Microsoft Certification exam.

Prerequisites: NETA 155 (minimum grade C)

NETA 265 Server Configuration

4 Credits, 3 Lecture Hours, 2 Lab Hours,

A course on configuration for Microsoft Windows server technology. Topics include: configuring file and storage solutions, network services, Active Directory infrastructure, and access solutions; and business continuity and disaster recovery. This course prepares students for a Microsoft Certification exam.

Prerequisites: NETA 155 (minimum grade C)

NETA 290 Computer Network Administration Capstone 4 Credits. 1 Lecture Hour. 6 Lab Hours.

Students demonstrate knowledge and skills while completing a project related to the Computer Network Administration program. Topics include: analyzing and designing appropriate network

architecture, developing business network solutions, and installing and implementing networks.

Prerequisites: NETA 256

NETA 291 Full-Time Cooperative Education 1: Computer Network Administration

2 Credits, 1 Lecture Hour, 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

NETA 292 Full-Time Cooperative Education 2: Computer Network Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETA 291

NETA 293 Full-Time Cooperative Education 3: Computer Network Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETA 292

NETA 294 Internship 1: Computer Network Administration 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

NETA 295 Internship 2: Computer Network Administration 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETA 294

NETA 298 Second Year Special Topics in Computer Network Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Network Administration, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval Instructor Consent Required

NETA 299 Second Year Independent Project in Computer Network Administration

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Network Administration that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Computer Network Administration faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval Instructor Consent Required

NETC

Courses

NETC 121 Network Communications 1

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on computer networks and network operating systems. Topics include: network topology, local and wide area networks, connecting devices to networks, basic network software and file sharing, and problem solving. This course helps students prepare for the CompTIA Network+ exam.

Prerequisites: AFL 085, and MAT 115 or MAT 120, or appropriate placement test scores

NETC 122 Network Communications 2

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of NETC 121. Topics include: routing protocols, spanning tree, VLANs and network security, and network address translation.

Prerequisites: NETC 121

NETC 170 Governance and Management of IT 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on frameworks for organizational governance of information technology. Topics include: IT portfolio management, risk and compliance, and business continuity planning and impact analysis. Prerequisites: NETC 121

NETC 180 Information Risk Management 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on methods for analyzing and classifying organizational data to maintain information security. Topics include: information ownership; information threats, vulnerabilities, and exposure; and investigating and assessing risk.

Prerequisites: NETC 122 and NETA 155

NETC 191 Part-Time Cooperative Education 1: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: None

NETC 192 Part-Time Cooperative Education 2: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 191

NETC 193 Part-Time Cooperative Education 3: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: NETC 192

NETC 194 Part-Time Cooperative Education 4: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 193

NETC 195 Part-Time Cooperative Education 5: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 194

NETC 196 Part-Time Cooperative Education 6: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 195

NETC 198 First Year Special Topics in Computer Network Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Network Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

NETC 199 First Year Independent Project in Computer Network Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Network Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Computer Network Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

NETC 230 Network Security Design

3 Credits, 2 Lecture Hours, 2 Lab Hours,

A course on developing security to protect business systems. Topics include: design and testing of various layered network security software and hardware.

Prerequisites: NETA 155 and NETC 121

Corequisites: NETC 122

NETC 240 Emerging Topics in Computer Network Engineering Technology

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on current industry needs related to Computer Network Engineering Technology. Topics include: voice-over-internet protocol

(VoIP), cloud computing, and Linux. Prerequisites: NETC 122 and NETA 155

NETC 280 IT Documentation

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on documentation of IT systems focusing on general regulatory compliance requirements. Students use Microsoft Visio for laboratory activities.

Prerequisites: NETC 170, ENG 101

NETC 290 Computer Network Engineering Technology Capstone Project

3 Credits. 2 Lecture Hours. 2 Lab Hours.

Students work in teams to design and build network solutions while demonstrating knowledge and skills gained in the Computer Network Engineering Technology program.

Prerequisites: NETC 122, NETC 230, NETB 155, ENG 102

NETC 291 Full-Time Cooperative Education 1: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

NETC 292 Full-Time Cooperative Education 2: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 291

NETC 293 Full-Time Cooperative Education 3: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 292

NETC 294 Internship 1: Computer Network Engineering Technology

2 Credits, 1 Lecture Hour, 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

NETC 295 Internship 2: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 294

NETC 298 Second Year Special Topics in Computer Network Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Computer Network Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

NETC 299 Second Year Independent Project in Computer Network Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Computer Network Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Computer Network Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

NUR

Courses

NUR 100 Orientation to Nursing

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on building knowledge and skills essential to success for students entering the Nursing associate degree program. Topics include: the nursing process, professionalism, critical thinking, time management, study skills, and communication.

Prerequisites: None

Instructor Consent Required

NUR 101 Nursing Concepts 1

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the role of the RN in the healthcare system, including cognitive, affective, and psychomotor skills. Topics include: academic success skills, communication, math, health and wellness, cultural awareness, regulatory guidelines, safety, patient education, and basic nursing skills.

Prerequisites: Admitted to the NUR program, high school biology and chemistry within the past 7 years, and STNA (minimum grade C for all courses)

Instructor Consent Required

NUR 102 Nursing Concepts 2

6 Credits. 3 Lecture Hours. 9 Lab Hours.

A continuation of NUR 101. Topics include: holistic care of patients with common health problems, nursing processes, communication, evidence-based practice, cultural sensitivity, and effective decision making skills. Students apply specific nursing and assessment skills in the clinical setting.

Prerequisites: NUR 101, BIO 151, MCH 100 and (ENG 101 or ENG REQC) (minimum grade C for all) Instructor Consent Required

NUR 103 Nursing Concepts 3

9 Credits. 6 Lecture Hours. 9 Lab Hours.

A continuation of NUR 102. Topics include: nursing care of children and adults across the life span. Students apply clinical reasoning and nursing skills in simulations and in the clinical setting.

Prerequisites: NUR 102 and BIO 152 and 6 credits of English Composition (minimum grade C for all)

Instructor Consent Required

NUR 104 Academic Success Strategies for Nursing 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on strategies for academic success in the Nursing associate degree program. Topics include: using college resources; building skills in critical thinking, studying, mathematics, and test-taking; and improving time management skills.

Prerequisites: Instructor consent Instructor Consent Required

NUR 105 Nursing LPN to ADN Transition 3 Credits, 2 Lecture Hours, 3 Lab Hours,

A course for the LPN who is transitioning into the Associate's degree Nursing program. Topics include: concepts and skills distinctive to the LPN and RN, nursing roles and academic programs, and skills applications in laboratory and clinical settings.

Prerequisites: Unencumbered LPN license in Ohio, and BIO 151 and ENG 101 (minimum grade C for both)

Corequisites: NUR 106: Nursing LPN/ADN Bridge

Instructor Consent Required

NUR 106 Nursing LPN/ADN Bridge

4 Credits. 2 Lecture Hours. 6 Lab Hours.

A course for the Licensed Practical Nurse entering the Associate's degree Nursing program. Topics include: nursing care of children, and nursing skills and competencies. Students apply clinical reasoning and nursing skills in simulations and in the clinical setting.

Prerequisites: Unencumbered LPN license in Ohio, and BIO 151 and ENG 101 (minimum grade C for both)

Corequisites: NUR 105: Nursing LPN to ADN Transition

Instructor Consent Required

NUR 150 Nursing Advanced Standing - LPN to ADN 11 Credits. 11 Lecture Hours. 0 Lab Hour.

Students may receive up to 11 semester credit hours for prior training as an LPN that applies to credits required in the Associate's degree Nursing program. Nursing Program Chair approval is required.

Prerequisites: Program Chair consent

Instructor Consent Required

NUR 198 First Year Special Topics in Nursing 1-9 Credits, 0 Lecture Hour, 0 Lab Hour,

A course on selected topics related to Nursing, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

NUR 199 First Year Independent Project in Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Nursing that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Nursing faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

NUR 201 Nursing Concepts 4

11 Credits. 7 Lecture Hours. 12 Lab Hours.

A continuation of NUR 103. Topics include: nursing care of individuals and families in multiple clinical settings, including mental health/ psychiatric nursing, obstetrical nursing, and medical-surgical nursing. Students apply specific skills in the clinical setting.

Prerequisites: NUR 103 or NUR 105, and BIO 152 (minimum grade C for all)

Instructor Consent Required

NUR 202 Nursing Concepts 5

9 Credits. 6 Lecture Hours. 9 Lab Hours.

A continuation of NUR 201. Topics include: managing care of patients experiencing complex, acute, and emergency variations in health status; preparing for the NCLEX-RN exam; and preparing for transition to the role of professional nurse. Students apply specific skills in the clinical setting.

Prerequisites: NUR 201, and COMM 105 or COMM 110 (minimum grade C for all)

Instructor Consent Required

NUR 298 Second Year Special Topics in Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Nursing, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

NUR 299 Second Year Independent Project in Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Nursing that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Nursing faculty. Grades issued are Satisfactory or Unsatisfactory.



Courses

OTA 100 Introduction to Occupational Therapy Assisting 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on history, philosophy, and development of occupational therapy. Topics include: the Occupational Therapy Practice Framework, role and function of occupational therapists and occupational therapy assistants, and relationship of this field to other allied health professions. Students observe community occupational therapy settings.

Prerequisites: Admitted to OTA program (may be Pre-Admit status and completing Selective Enrollment steps)

OTA 101 Professionalism in Occupational Therapy 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on basic tenets of professional behaviors required for client treatment and working in the health care field. Topics include: professional dress, written and verbal communication, time management, ethics, and professional associations.

Prerequisites: OTA 100 (minimum grade C)

OTA 105 Theory of Occupational Therapy 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on developmental processes of human performance. Topics include: occupational tasks and roles from birth to death; age-appropriate balance of work, self-care, and play/leisure; the impact of disease; and the therapeutic use of self.

Prerequisites: Admitted to the OTA program through the selective enrollment process, and instructor consent

Corequisites: OTA 106: Techniques of Occupational Therapy Instructor Consent Required

OTA 106 Techniques of Occupational Therapy 2 Credits. 0 Lecture Hour. 4 Lab Hours.

A course on use of crafts and occupation-based activity as therapeutic modalities in treatment toward function. Topics include: activity analysis and therapeutic adaptations, problem-solving, and critical thinking.

Prerequisites: Admission to the OTA program through the selective enrollment process, and instructor consent

Corequisites: OTA 105: Theory of Occupational Therapy

Instructor Consent Required

OTA 107 Clinical Competency Foundations for Occu pational Therapy Assistant

1 Credit. 2 Lab Hours.

A course for Occupational Therapy Assistant students on essential client care skills that provide a foundation for future OTA courses and clinical fieldwork. Students must successfully complete several practical examinations to earn a passing grade in the course. Prerequisites: Admitted to the OTA program through the selective enrollment process, and instructor consent

emoninent process, and instructor conse

Instructor Consent Required

OTA 110 Concepts and Skills of Occupational Therapy: Psychosocial

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the role of occupational therapy in the treatment of adults in a mental health setting. Topics include: analysis and observational skills, use of self and group for therapeutic intervention, application of group process, and documentation and communication.

Prerequisites: OTA 105, OTA 106 (minimum grade C for both)

OTA 111 Therapeutic Media for Occupational Therapy: Psychosocial

2 Credits. 0 Lecture Hour. 4 Lab Hours.

A mental health laboratory experience that accompanies OTA 110. Topics include: leadership and critical thinking skills needed in a group setting, applying group process, and using purposeful activity and crafts as the

Prerequisites: OTA 105, OTA 106 (minimum grade C for both)

OTA 120 Concepts and Skills of Occupational Therapy: Pediatrics 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the role of occupational therapy in treatment of children with physical and/or psychological dysfunction. Topics include: normal development, developmental disabilities, choosing functionally significant and age-appropriate treatment interventions, documentation, and the team approach.

Prerequisites: OTA 105, OTA 106 (minimum grade C for bothl)

OTA 121 Therapeutic Media for Occupational Therapy: Pediatrics 2 Credits. 0 Lecture Hour. 4 Lab Hours.

A pediatric laboratory experience that accompanies OTA 120. Topics include: basic developmental screening; using play as a therapeutic tool; evaluating other occupational performance skills; using adaptive equipment; and therapeutic techniques for positioning, handling, and feeding.

Prerequisites: OTA 105, OTA 106 (minimum grade C for bothl)

OTA 180 Occupational Therapy Assisting Level I Fieldwork 1 2 Credits. 1 Lecture Hour. 5 Lab Hours.

Directed observation and participation in a community occupational therapy setting with emphasis on pediatric topics. Students must provide proof of current certification in CPR and First Aid.

Prerequisites: OTA 105 and OTA 106 (minimum grade C for both)

OTA 185 Occupational Therapy Assisting Level I Fieldwork 2 2 Credits. 1 Lecture Hour. 5 Lab Hours.

Directed observation and participation in a community occupational therapy setting with emphasis on psychosocial topics. Students must provide proof of current certification in CPR and First Aid.

Prerequisites: OTA 120 and OTA 121 (minimum grade C for both)

OTA 198 First Year Special Topics in Occupational Therapy Assistant Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to A course on selected topics related to Occupational Therapy Assistant Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

OTA 199 First Year Independent Project in Occupational Therapy Assistant Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Occupational Therapy Assistant Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Occupational Therapy Assistant Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

OTA 230 Concepts and Skills of Occupational Therapy: Physical Disabilities

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on the role of occupational therapy in treatment of adults and elders with physical dysfunction in settings including in-patient, out-patient and rehabilitation. Topics include: treatment techniques for various diagnoses, treatment planning and implementation, and documentation skills.

Prerequisites: OTA 110, OTA 120, OTA 180, OTA 185 (minimum grade C for all)

OTA 231 Therapeutic Media for Occupational Therapy: Physical Disabilities

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A physical disabilities laboratory experience that accompanies OTA 230. Topics include: techniques for activities of daily living, therapeutic adaptations, adaptive/assistive equipment, community mobility, community resources, and critical thinking skills.

Prerequisites: OTA 111 and OTA 121 (minimum grade C for both)

OTA 233 Kinesiology for Occupational Therapy 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on the movement of body parts in relation to rehabilitation therapy. Topics include: kinematics and movement analysis; fabrication, application, fitting, and using orthotic positioning devices; and administering superficial thermal and mechanical modalities to improve occupational performance.

Prerequisites: OTA 110 and OTA 120 (minimum grade C for both)

OTA 240 Fundamentals of Occupational Therapy Practice 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on professional concerns for the practicing Occupational Therapy Assistant. Topics include: licensure, liability, continuing education, national registration, and promoting occupational therapy. Students prepare for Level 2 Field Work experience.

Prerequisites: OTA 230, OTA 231, OTA 233 (minimum grade C for all)

OTA 241 Fundamentals of Occupational Therapy Practice 1 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on professional concerns for the practicing Occupational Therapy Assistant. Topics include: role delineation, supervision, leadership, management, and promoting occupational therapy. Students prepare for the Level II internship experience.

Prerequisites: OTA 230 and OTA 231 and OTA 280 and OTA 233

OTA 242 Fundamentals of Occupational Therapy Practice 2 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A continuation of OTA 241. Topics include: preparation for employment including licensure, liability, and the national certification exam. Prerequisites: OTA 241

OTA 245 Therapeutic Media Analysis for Occupational Therapy 1 Credit. 0 Lecture Hour. 3 Lab Hours.

A course on using crafts and occupation-based activities in various clinical settings. Topics include: analyzing tasks and developing group leadership skills.

Prerequisites: OTA 230, OTA 231, OTA 233 (minimum grade C for all)

OTA 280 Occupational Therapy Assisting Level I Fieldwork 3 2 Credits. 1 Lecture Hour. 4 Lab Hours.

Directed observation and participation in a community occupational therapy setting with emphasis on physical disabilities and geriatric topics. Students must provide proof of current certification in CPR and First Aid.

Prerequisites: OTA 180 (minimum grade C)

OTA 283 Occupational Therapy Assisting Level II Fieldwork 1 4 Credits. 0 Lecture Hour. 22 Lab Hours.

An internship that provides students with full-time work experience for 8 weeks delivering occupational therapy services for various ages and conditions, under the supervision of a registered occupational therapy practitioner.

Prerequisites: OTA 230, OTA 231, OTA 233, and OTA 280 (minimum grade C for all)

OTA 285 Occupational Therapy Assisting Level II Fieldwork 2 4 Credits. 0 Lecture Hour. 22 Lab Hours.

An internship that provides students with full-time work experience for 8 weeks delivering occupational therapy services for various ages and conditions, under the supervision of a registered occupational therapy practitioner.

Prerequisites: OTA 240 and OTA 245 (minimum grade C for both)

OTA 294 OTA Level II Fieldwork 1

1 Credit. 0 Lecture Hour. 22 Lab Hours.

An internship that provides 8 weeks of full-time work experience delivering occupational therapy services for various ages and conditions, under the supervision of a registered occupational therapy practitioner.

Prerequisites: OTA 230 and OTA 231 and OTA 280

OTA 295 OTA Level II Fieldwork 2

1 Credit, 0 Lecture Hour, 22 Lab Hours.

An internship that provides 8 weeks of full-time work experience delivering occupational therapy services for various ages and conditions, under the supervision of a registered occupational therapy practitioner.

Prerequisites: OTA 230 and OTA 231 and OTA 280

OTA 298 Second Year Special Topics in Occupational Therapy Assistant Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Occupational Therapy Assistant Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D,

Prerequisites: None

OTA 299 Second Year Independent Project in Occupational Therapy Assistant Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Occupational Therapy Assistant Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Occupational Therapy Assistant Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PAS

Courses

PAS 100 Theory of Baking

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the science and technical components of baking. Topics include: function of ingredients, such as fats, sugar, liquids, and leavening agents; and flour technology. The course is delivered through online instruction only.

Prerequisites: Admitted to PAS program, and AFL 085 and AFM 092,

or appropriate placement test scores

Corequisites: Take PAS 105 Instructor Consent Required

PAS 105 Fundamentals of Baking

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on baking principles. Topics include: ingredient functions, weighing and measuring procedures, using leavening agents, and producing yeast dough, quick breads, puff pastries, pies, and tarts. Prerequisites: Admitted to PAS program, and AFL 085 and AFM 092 or appropriate placement test scores

Corequisites: Take PAS 100 Instructor Consent Required

PAS 110 Celebration Cakes

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on design and production of cakes for celebrations such as weddings, birthdays, anniversaries, and other special occasions. Prerequisites: Admitted to PAS program, and AFL 085 and AFM 092, or appropriate placement test scores

Corequisites: PAS 100 : Theory of Baking, PAS 105 : Fundamentals of Baking

Instructor Consent Required

PAS 115 Pastry Production and Design 3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on production and decorating of cakes, cookies, petits four, and fruit-based desserts. Topics include: make-up methods, finishing techniques, using pastry decoration mediums, and creating a sugar centerpiece.

Prerequisites: PAS 100 and PAS 105 and PAS 110 (minimum grade C for all)

Instructor Consent Required

PAS 120 Nutritional Baking and Cuisine 3 Credits. 1 Lecture Hour. 4 Lab Hours.

A course on producing nutritional baked goods. Topics include: nutritional significance of ingredients; replacements for fat, sodium, and sugar; and techniques for recipe modification.

Prerequisites: DT 120 and PAS 100 and PAS 105 (minimum grade C for all)

Instructor Consent Required

PAS 191 Part-Time Cooperative Education 1: Pastry Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: HRM 100 and co-op coordinator consent

Instructor Consent Required

PAS 192 Part-Time Cooperative Education 2: Pastry Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: PAS 191

PAS 193 Part-Time Cooperative Education 3: Pastry Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: PAS 192

PAS 194 Part-Time Cooperative Education 4: Pastry Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: PAS 193

PAS 195 Part-Time Cooperative Education 5: Pastry Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: PAS 194

PAS 196 Part-Time Cooperative Education 6: Pastry Arts 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: PAS 195

PAS 198 First Year Special Topics in Pastry Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to [department/program name], which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

PAS 199 First Year Independent Project in Pastry Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Pastry Arts that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Pastry Arts faculty. Grades issued are Satisfactory or Unsatisfactory.

PAS 210 Advanced Pastry and Buffet Design 3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on production of a pastry buffet. Topics include: decoration techniques, creating dessert platters, and producing sugar centerpieces.

Prerequisites: PAS 115 (minimum grade C)

Instructor Consent Required

PAS 215 Novelty and Theme Cake Production 3 Credits, 0 Lecture Hour, 6 Lab Hours.

A course on production of novelty and theme cakes. Topics include: cake sculpturing techniques, fondant figure-making, figure piping, and creative construction styles.

Prerequisites: PAS 110 (minimum grade C)

Instructor Consent Required

PAS 220 Advanced Wedding Cake Production

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on the design and construction of wedding cakes. Topics include: layering and covering tiered cakes, using techniques for fine piping design and royal icing, and creating gum paste flowers and other decorations.

Prerequisites: PAS 110 (minimum grade C)

Instructor Consent Required

PAS 225 Artisan Bread Baking

3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on the production of fine artisan breads. Topics include: techniques for basic sponge and sour dough, lamination of dough, and production of European-style specialty bread products.

Prerequisites: PAS 105 (minimum grade C)

Instructor Consent Required

PAS 230 Chocolate and Confectionery Production 3 Credits. 0 Lecture Hour. 6 Lab Hours.

A course on chocolate use, focusing on proper tempering and construction of a chocolate centerpiece. Topics include: candy making and coating.

Prerequisites: PAS 105 (minimum grade C)

Instructor Consent Required

PAS 290 Pastry Capstone

3 Credits. 1 Lecture Hour. 5 Lab Hours.

Students apply previous training in baking and pastry arts to advanced study of bakery production, emphasizing dessert production for restaurants.

Prerequisites: PAS 210 (minimum grade C)

Instructor Consent Required

PAS 291 Full-Time Cooperative Education 1: Pastry Arts 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: HRM 100 and PAS 105 and co-op coordinator consent

PAS 292 Full-Time Cooperative Education 2: Pastry Arts 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PAS 291

PAS 293 Full-Time Cooperative Education 3: Pastry Arts 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PAS 292

PAS 298 Second Year Special Topics in Pastry Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Pastry Arts, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PAS 299 Second Year Independent Project in Pastry Arts 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Pastry Arts that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Pastry Arts faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PRA

Courses

PBA 191 Part-Time Cooperative Education 1: Pre-Business Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190

PBA 192 Part-Time Cooperative Education 2: Pre-Business Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: PBA 191

PBA 193 Part-Time Cooperative Education 3: Pre-Business Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PBA 192

Cincinnati State

PBA 194 Part-Time Cooperative Education 4: Pre-Business Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PBA 193

PBA 195 Part-Time Cooperative Education 5: Pre-Business Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PBA 194

PBA 196 Part-Time Cooperative Education 6: Pre-Business Administration

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PBA 195

PBA 291 Full-Time Cooperative Education 1: Pre-Business Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190

PBA 292 Full-Time Cooperative Education 2: Pre-Business Administration

2 Credits, 1 Lecture Hour, 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PBA 291

PBA 293 Full-Time Cooperative Education 3: Pre-Business Administration

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PBA 292

PCC

Courses

PCC 198 First Year Special Topics in Personal Chef 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Personal Chef, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PCC 199 First Year Independent Project in Personal Chef 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Personal Chef that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Personal Chef faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PCC 298 Second Year Special Topics in Personal Chef 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Personal Chef, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PCC 299 Second Year Independent Project in Personal Chef 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Personal Chef that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Personal Chef faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PE

Courses

PF 100 Meditation

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on incorporating meditation practice into daily lifestyle. Topics include: introduction to meditation, relaxation techniques, meditation teachings, and breathing techniques.

Prerequisites: None

PE 104 Relaxation

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on techniques for incorporating the relaxation response into daily life. Topics include: life choices, environmental stressors, nutrition, and developing coping skills to deal with stressors.

Prerequisites: None

PE 108 Yoga

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using yoga to provide flexibility, strength, and relaxation, and to develop a yoga practice in a group setting. Topics include: yoga postures and movements, breathing techniques, meditation, and yoga philosophy.

Prerequisites: None

PE 112 Pilates Mat

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on Joseph Pilates' concepts of body conditioning. Topics include: the effects of posture, flexibility, strength, and breathing techniques on increased body awareness and movement sense.

Prerequisites: None

PE 116 Zumba

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1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on achieving a cardiovascular workout by combining interval training and resistance training with Latin dance music.

Prerequisites: None

PE 120 Dance Techniques

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using and combining techniques for warm-up, barre work, center floor combinations, and across-the-floor choreography. Topics include: ballet, Latin American dance, tap, musical theater dance, and multicultural and contemporary dance styles.

Prerequisites: None

PE 124 Spinning

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using indoor stationary cycling to provide a cardiovascular workout. Topics include: bike set-up, pedal stroke, cycling positions, nutrition, periodization, heart rate training, and energy zones.

Prerequisites: None

PE 128 Group Fitness

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on techniques for experiencing a total body workout in a group setting, including cardiovascular movement, strength training, and flexibility training.

Prerequisites: None

PE 132 Resistance and Cardiorespiratory Training 1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on exercise techniques for developing and maintaining physical fitness and good health. Topics include: basic exercise principles, building and retaining muscle mass, and using strength training to improve cardiovascular endurance.

Prerequisites: None

PE 136 Aikido

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on martial arts that emphasize a non-aggressive approach to self defense without injury. Topics include: using the energy of an opponent to diffuse an attack with blending energy, pressure points, and joint locks and pins.

Prerequisites: None

PE 140 Tai Chi

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using Yang style Tai-Chi Chuan to improve flexibility, balance, endurance, and health. Topics include: physiological basis of the techniques, simplified 24 forms, and stress reduction.

Prerequisites: None

PE 144 Chinese Kung-Fu

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamentals of the Celestial Mountain Northern Style of Kung-Fu. Topics include: warm-ups, stretch kicks, basic stances, and a variety of offensive and defensive techniques.

Prerequisites: None

PE 148 Hiking Local Trails

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on basic techniques and safe practices for outdoor hiking. Topics include: conditioning, choosing equipment, planning trips and hikes for varied weather conditions, using trail maps, and applying leave-no-trace outdoor ethics. Students must travel to off-campus hiking locations.

Prerequisites: None

PE 152 Racquetball

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental racquetball skills. Topics include: rules, terminology, practice, and game play.

Prerequisites: None

PE 156 Soccer

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental soccer skills. Topics include: rules,

terminology, practice, and game play.

Prerequisites: None

PE 160 Basketball

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental basketball skills. Topics include: rules, terminology, dribbling, shooting, passing, team strategy, and game play.

Prerequisites: None

PE 164 Swimming

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on fundamental swimming skills, covering topics required for the American Red Cross Learn-to-Swim courses 1, 2, and 3.

Prerequisites: None

PE 168 Aquatic Group Fitness

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A course on using a shallow water pool to provide a total body workout in a group setting. Topics include: cardiovascular movement, strength training, and flexibility training.

Prerequisites: None

PE 198 First Year Special Topics in Physical Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Physical Education, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

PE 199 First Year Independent Project in Physical Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Physical Education that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health and Fitness faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PE 298 Second Year Special Topics in Physical Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Physical Education, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

PE 299 Second Year Independent Project in Physical Education 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Physical Education that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Health and Fitness faculty. Grades issued are Satisfactory or Unsatisfactory.



Courses

PHI 105 Introduction to Philosophy 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of philosophical principles and methods of investigation. Topics include: knowledge, reasoning, morality, and other philosophical concepts associated with notable Western and Eastern philosophers.

Prerequisites: ENG 101 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PHI 110 Ethics

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of theories and applications of ethics. Topics include: evaluating moral arguments in theoretical and practical situations, applying moral reasoning to contemporary social and cultural problems, and making moral choices using examples related to the student's field of study.

Prerequisites: ENG 101 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PHI 198 First Year Special Topics in Philosophy 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Philosophy, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PHI 199 First Year Independent Project in Philosophy 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Philosophy that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Philosophy faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PHI 298 Second Year Special Topics in Philosophy 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Philosophy, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PHI 299 Second Year Independent Project in Philosophy 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Philosophy that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Philosophy faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PHY

Courses

PHY 105 Fire Service Physics 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on concepts and principles of physics that are applied in public safety technologies. Topics include: the kinematics and dynamics of linear motion, machines, fluid mechanics, thermodynamics, electricity, and electrical safety.

Prerequisites: AFM 094 or AFM 095 or MAT 105 or appropriate placement test score

PHY 110 Health Physics

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and principles of physics that are applied in health technologies. Topics include: math for physics, the kinematics and dynamics of linear motion, machines, fluid mechanics, temperature, electricity and electrical safety, waves, and light. Prerequisites: AFM 094 or AFM 095 (minimum grade C for both) or MAT 105 or appropriate placement test score

PHY 115 Aviation Maintenance Physics

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on concepts and principles of physics applied in aviation technologies. Topics include: kinematics and dynamics of one- and two-dimensional motion, work, power, conservation laws, machines, fluid mechanics, and thermodynamics.

Prerequisites: MAT 120 or appropriate placement test score

PHY 121 Technical Physics 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and principles of physics that are applied in engineering technologies. Topics include: the kinematics and dynamics of linear motion, machines, fluid mechanics, and thermodynamics. Prerequisites: MAT 120 or appropriate placement test score

PHY 122 Technical Physics 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of PHY 121. Topics include: rotational motion; physical properties; AC, DC, and digital electronics; circuit analysis; waves; and optics.

Prerequisites: PHY 121 or BMT 151

PHY 150 Introduction to Physics 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamentals of physics. Topics include: laboratory procedures, the controlled experiment, methods of measurement, data collection and analysis techniques, and interpreting experimental results.

Prerequisites: MAT 120 or appropriate placement test score

PHY 151 Physics 1: Algebra and Trigonometry-Based 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on concepts and principles of algebra-and-trigonometry-based physics. Topics include: kinematics, dynamics, statics, heat, and thermodynamics.

Prerequisites: PHY 150, or MAT 125 or appropriate math placement score

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PHY 152 Physics 2: Algebra and Trigonometry-Based 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A continuation of PHY 151. Topics include: waves, electromagnetic radiation, geometrical optics, physical optics, photometry, basic forces in physics, AC and DC circuits, quantum mechanics, and atomic and nuclear physics.

Prerequisites: PHY 151

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PHY 198 First Year Special Topics in Physics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Physics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PHY 199 First Year Independent Project in Physics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Physics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Physics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PHY 201 Physics 1: Calculus-Based 5 Credits. 4 Lecture Hours. 2 Lab Hours.

A course on concepts and principles of calculus-based physics. Topics include: the kinematics and dynamics of linear and rotational motion, gravity, oscillatory motion, waves, and fluid mechanics.

Prerequisites: MAT 126 or MAT 152 or MAT 153 or appropriate

placement test score Corequisites: Take MAT-251 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PHY 202 Physics 2: Calculus-Based 5 Credits. 4 Lecture Hours. 2 Lab Hours.

A continuation of PHY 201. Topics include: thermodynamics, electric and magnetic fields, dc and ac circuit analysis, electromagnetic radiation, optics including interference and diffraction, and modern physics.

Prerequisites: PHY 201 and MAT 251 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PHY 298 Second Year Special Topics in Physics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Physics, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PHY 299 Second Year Independent Project in Physics 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Physics that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Physics faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PM

Courses

PN 101 Practical Nursing Concepts 1 8 Credits. 5 Lecture Hours. 9 Lab Hours.

An introduction to the practical nursing role with applications of basic nursing skills in lab, simulation, and clinical settings. Topics include: pharmacology, safety, nursing process, nursing history and law, and alterations in health.

Prerequisites: Admitted to the Practical Nursing Certificate program, high school biology and chemistry within the past 7 years, and STNA (minimum grade C for all courses) Instructor Consent Required

PN 102 Practical Nursing Concepts 2 10 Credits. 7 Lecture Hours. 9 Lab Hours.

A continuation of PN 101, with applications of clinical reasoning and nursing skills in classroom, lab, simulation, and clinical settings. Topics include: mental health, and care of the patient with alterations in health across the lifespan.

Prerequisites: PN 101 Instructor Consent Required

PN 103 Practical Nursing Concepts 3 6 Credits. 4 Lecture Hours. 6 Lab Hours.

A continuation of PN 102 focusing on preparation for transition to the role of the practical nurse, with applications of nursing skills. Topics include: care of the patient with complex alterations in health, women? s health/OB, and the professional role.

Prerequisites: PN 102 Instructor Consent Required

PN 125 Academic Success Strategies for Practical Nursing 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on strategies for academic success in the Practical Nursing Certificate program. Topics include: building skills in critical thinking, studying, mathematics, and test-taking; improving time management skills; and developing effective communication and conflict resolution skills.

Prerequisites: Instructor consent Instructor Consent Required

PN 185 Practical Nursing Role Transition 2 Credits. 2 Lecture Hours. 8 Lab Hours.

Students apply practical nursing knowledge and skills while working with diverse groups of patients. Topics include: professionalism, and transition from student to practical nurse role. To pass the course, students must achieve a predetermined score on a national standardized exam.

Prerequisites: PN 122 (minimum grade C), and PN 182 Instructor Consent Required

PN 198 First Year Special Topics in Practical Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Practical Nursing, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

PN 199 First Year Independent Project in Practical Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Practical Nursing that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Practical Nursing faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PN 298 Second Year Special Topics in Practical Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Practical Nursing, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

PN 299 Second Year Independent Project in Practical Nursing 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Practical Nursing that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Practical Nursing faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

POL

Courses

POL 100 Democracy in Action: Making Your Voice and Vote Count 3 Credits. 3 Lecture Hours. 0 Lab Hour.

An introduction to the role of citizens in a democracy. Topics include: the history of voting in the United States, participation in electoral processes, local and state government, and how voters can make changes in their community.

Prerequisites: None

POL 101 Introduction to American Government 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of the American political system at the national level. Topics include: democratic theory and principles, the Constitution, civil liberties, and citizen rights.

Prerequisites: AFL 085 or appropriate placement test score Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

POL 102 Introduction to Comparative Governments and Politics 3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of political systems and structures. Topics include: the relationship between political ideologies and governments; and comparison of international examples of alternative structures for executive leadership, legislatures, bureaucracy, and judicial systems. Prerequisites: POL 101

Ohio Transfer Module Approved

POL 198 First Year Special Topics in Political Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Political Science, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

POL 199 First Year Independent Project in Political Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Political Science that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Political Science faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

POL 298 Second Year Special Topics in Political Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Political Science, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

POL 299 Second Year Independent Project in Political Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Political Science that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Political Science faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PSC

Courses

PSC 105 Astronomy

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on fundamentals of astronomy. Topics include: evolution of the solar system, probability of life beyond Earth, and evolution of the universe.

Prerequisites: AFM 094 or AFM 095 (minimum grade C for both) or MAT 105 or appropriate placement test score

Ohio Transfer Module Approved

PSC 110 Earth Science

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on fundamentals of earth science. Topics include: geologic processes and history of Earth, techniques of weather forecasting, and methods for maintaining environmental integrity.

Prerequisites: AFM 094 or AFM 095 (minimum grade C for both) or

MAT 105 or appropriate placement test score

Ohio Transfer Module Approved

PSC 115 Energy

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamental concepts of science related to energy. Topics include: historical energy sources, social costs of energy, and alternative energy sources.

Prerequisites: AFM 094 or AFM 095 (minimum grade C for both) or MAT 105 or appropriate placement test score Ohio Transfer Module Approved

PSC 198 First Year Special Topics in Physical Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Physical Science, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

PSC 199 First Year Independent Project in Physical Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Physical Science that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Physical Science faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PSC 298 Second Year Special Topics in Physical Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Physical Science, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PSC 299 Second Year Independent Project in Physical Science 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Physical Science that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Physical Science faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PSET

Courses

PSET 110 Power Systems Computer Aided Drafting 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on computer aided drafting and design for power systems. Topics include: CAD fundamentals; and designing, modifying, and editing documents that apply to the power systems industry. Prerequisites: AFL 085, and AFM 094 or MAT 120, or appropriate placement test scores

PSET 120 Geographic Information Systems (GIS) 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on skills used for computer-aided electronic mapping as applied to the power grid system. Topics include: power grid mapping, map databases, spatial positioning, analysis, modeling, and visualization.

Prerequisites: PSET 110

PSET 130 National Electric Code and National Electric Safety Code

2 Credits. 1 Lecture Hour. 2 Lab Hours.

A course on the purpose, intent, use, and enforcement of the National Electric Code (NEC) and the National Electric Safety Code (NESC) in electrical design and in specifications of equipment used in power systems.

Prerequisites: EET 131

PSET 140 Power Systems Foundations 3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introduction to electrical power systems from generation to utilization. Topics include: purpose, composition, operating characteristics, and design considerations of power system components; power quality and safety; fundamentals of AC waveforms including single and three phase connections, voltage and current calculations; per-unit representation; and power factor.

Prerequisites: EET 131

PSET 150 Electrical Power Technology Studies: Adv 30 Credits. 30 Lecture Hours. 0 Lab Hour.

Students complete apprenticeship education, post-secondary education, or work experience related to skills used in the electrical power industry.

Prerequisites: Program Chair consent

Instructor Consent Required

PSET 191 Part-Time Cooperative Education 1: Power Systems Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: None

PSET 192 Part-Time Cooperative Education 2: Power Systems Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 191

PSET 193 Part-Time Cooperative Education 3: Power Systems Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 192

PSET 194 Part-Time Cooperative Education 4: Power Systems Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 193

PSET 195 Part-Time Cooperative Education 5: Power Systems Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 194

PSET 196 Part-Time Cooperative Education 6: Power Systems Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 195

PSET 198 First Year Special Topics in Power Systems Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Power Systems Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

PSET 199 First Year Independent Project in Power Systems Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Power Systems Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Power Systems Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

PSET 225 Industrial and Commercial Power Design 4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on design of industrial and commercial building electrical distribution systems. Topics include: load calculations, wiring devices, overcurrent protection, conductors, conduit and raceway systems, panelboards and switchboards, voltage drop calculations, grounding and bonding, branch circuit and feeder design, and motor circuits. Prerequisites: PSET 140

PSET 250 Power Transmission and Distribution Design 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on overhead and underground transmission and distribution systems. Topics include: operation, maintenance, and monitoring of transmission and distribution equipment; transmission line parameters; power flow; design of conductor support structures; overview of system protection; smart grid concepts; and data collection mechanisms. Prerequisites: PSET 140

PSET 260 Stationary Engineering with Instrumentation and Controls

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on steam plant operation and associated instrumentation and controls. Topics include: basic components, maintenance requirements for utility boilers, combined cycle and cogeneration systems, nuclear steam generation, standard pressure and horsepower calculations, and control of major steam boiler processes.

Prerequisites: EMET 140 and EMET 240

PSET 275 Protective Relays and Controls 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on protective relays and their application to electric transmission and distribution systems. Topics include: power regulation and communication requirements; electro-mechanical relays and breakers, microprocessor relays and synchrophasors; transformers; transmission and distribution lines; capacitor banks; and regulator protection.

Prerequisites: EMET 240 and PSET 225

PSET 290 Power Systems Capstone 2 Credits. 1 Lecture Hour. 2 Lab Hours.

Students work in teams to complete a design project. Topics include: design concepts, modeling, detail and assembly drawings, bill of materials, vendors, costs, and manufacture of prototype.

Prerequisites: PSET 220 and PSET 225

PSET 291 Full-Time Cooperative Education 1: Power Systems Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

PSET 292 Full-Time Cooperative Education 2: Power Systems Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 291

PSET 293 Full-Time Cooperative Education 3: Power Systems Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 292

PSET 294 Internship 1: Power Systems Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: EMET 140

PSET 295 Internship 2: Power Systems Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PSET 294

PSET 298 Second Year Special Topics in Power Systems Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Power Systems Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

PSET 299 Second Year Independent Project in Power Systems **Engineering Technology**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Power Systems Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Power Systems Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

PST

Courses

PST 100 Introduction to Emergency Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on professionalism and ethics in the safety and security career fields. Topics include: risk assessment, mitigation, and response; disaster recovery; preparedness; and communications. Prerequisites: AFL 085 or appropriate placement test score

PST 110 Introduction to Homeland Security 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on key principles of emergency management and their relationship to homeland security. .

Prerequisites: None

PST 115 Introduction to Terrorist Groups 3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on the history, motivation, and activities of terrorists. Topics include: how terrorist groups and individuals evolve, and how governments respond to terrorist events.

Prerequisites: None

PST 120 Intelligence Analysis and Security Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on key principles of physical security. Topics include: passive detection systems; assessing risk; understanding rules of evidence and testifying in court; and using tools such as link analysis, event flow diagrams, and visual intelligence analysis diagrams.

Prerequisites: None

PST 125 Public Safety Contingency Planning 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on techniques for developing continuity of operations plans (COOP), continuity of government plans (COG), and event and community hazard plans.

Prerequisites: PST 110

PST 130 Public Safety Communication Practices 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on techniques for communication with employees, the community, and the media during a crisis event.

Prerequisites: None

PST 135 Disaster Preparedness for Healthcare Workers 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on disaster preparedness, incident command, and risks and hazards as related to the healthcare worker.

Prerequisites: None

PST 140 Public Safety Telecommunicator 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the role of the telecommunicator. Topics include: classifying and prioritizing calls, responding to calls, managing equipment and records, functioning under the Federal Communications Commission (FCC), and professional ethics. Prerequisites: AFL 085 or appropriate placement test score

PST 145 Emergency Medical Dispatcher 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on the responsibilities of the emergency medical dispatcher. Topics include: assessing and prioritizing emergency calls, dispatching the appropriate response, and giving callers appropriate instructions until the responding EMS unit arrives.

Prerequisites: PST 140

PST 150 Law Enforcement Studies: Advanced Standi 16 Credits. 16 Lecture Hours. 0 Lab Hour.

Students may receive up to 16 semester credit hours for successful completion of the Ohio Peace Officer Basic Training or equivalent state/federal law enforcement training. Approval of training by the ATS-Law Enforcement Program Chair is required.

Prerequisites: Program Chair consent

Instructor Consent Required

PST 198 First Year Special Topics in Public Safety Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Public Safety Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

PST 199 First Year Independent Project in Public Safety Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Public Safety Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Public Safety Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PST 200 Healthcare Security

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on healthcare security programs. Topics include: preventing accidents and injuries, fire safety, and crisis intervention.

Prerequisites: PST 120

PST 205 Transportation Security

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on providing security for various modes of transportation and transportation facilities. Topics include: airports, railroads, ports, trucking, and pipelines.

Prerequisites: None

PST 291 Full-Time Cooperative Education 1: Public Safety Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seekin an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfatory or Unsatisfactory.

Prerequisites: PST 100 (minimum grade C)

Instructor Consent Required

PST 292 Part-Time Internship 1: Public Safety Technology 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in a part-time unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit.

Prerequisites: PST 100 (minimum grade C)

PST 294 Full Time Internship 1: Public Safety Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in a full-time unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: PST 100 (minimum grade C)

PST 298 Second Year Special Topics in Public Safety Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Public Safety Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

PST 299 Second Year Independent Project in Public Safety Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Public Safety Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Public Safety Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PSY

Courses

PSY 100 Applied Psychology: Human Relations 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on applying psychological principles and theories to everyday life. Topics include: personality, behavioral change, stress and coping, interpersonal communication, relationships, gender and sexuality, and diversity and individual differences.

Prerequisites: None

PSY 102 Applied Psychology: Stress Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on understanding and managing stress. Topics include: causes and consequences of stress, physiology of stress, social and cultural factors affecting stress, and strategies for managing stress. Prerequisites: None

PSY 105 Psychology of Leadership

4 Credits. 2 Lecture Hours. 4 Lab Hours.

A course on developing leadership and peer mentoring skills. Topics include: holistic, group, and individual leadership; leadership for diversity; and academic retention strategies. Students serve as peer leaders and must attend at least 70% of class sessions for the course they are leading.

Prerequisites: FYE 100 or FYE 105 or FYE 110 or HNR 100 (minimum grade B for all), and AFL 085 (minimum grade C) or appropriate placement test score

PSY 110 Introduction to Psychology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on psychology as the scientific study of behavior and mental processes. Topics include: history, experimental psychology, clinical psychology, and human development.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

Ohio Transfer Module Approved

PSY 198 First Year Special Topics in Psychology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Psychology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PSY 199 First Year Independent Project in Psychology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Psychology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Psychology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

PSY 200 Abnormal Psychology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Survey of behavioral, emotional, and mental disorders. Topics include: etiology, prognosis, and treatment modalities using the current DSM; historical and cultural viewpoints; research; prevention; substance abuse; and legal and ethical issues.

Prerequisites: PSY 110
Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PSY 205 Child Development

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on a child's development from the prenatal period to age 12. Topics include: influences of physical/neurological, social/emotional, and cognitive factors in development.

Prerequisites: PSY 110

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PSY 210 Adolescent Development

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on developmental issues of adolescence. Topics include: physical, cognitive, familial, educational/vocational, and social development.

Prerequisites: PSY 110

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PSY 215 Adult Development

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of principles and theories of human growth and development from early adulthood through late adulthood.

Prerequisites: PSY 110

Ohio Transfer Module Approved

PSY 220 Social Psychology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of the individual within the social environment. Topics include: understanding the social behavior of individuals in interactions with others, social interactions in groups, social influence, perception, attraction, aggression, and altruism.

Prerequisites: PSY 110

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PSY 225 Lifespan Development

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of human development from the prenatal period through late adulthood. Topics include: biological, cognitive, social, and cultural factors that influence development.

Prerequisites: PSY 110

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

PSY 298 Second Year Special Topics in Psychology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Psychology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

PSY 299 Second Year Independent Project in Psychology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Psychology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Psychology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

RE

Courses

RE 100 Real Estate Principles and Practices

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on real estate economics required prior to taking the sales license exam. Topics include: principles of contracts, civil rights, ethics, financing, brokerage, appraisal, and Ohio real estate practices.

Prerequisites: None

RE 105 Real Estate Law

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on Ohio Real Estate Law required prior to taking the sales license exam. Topics include: law of agency as applied to real estate; landlord/tenant law; estates; the sales contract; mortgages, deeds, and property; and financing, liens, and easements.

Prerequisites: None

RE 110 Real Estate Appraisal and Finance 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques related to residential real estate appraisal and finance, emphasizing Ohio real estate transactions. Topics include: finance instruments, loan processes and documentation, and appraisal methods. This course is required prior to taking the Ohio Real Estate Sales Licensing exam.

Prerequisites: None

RE 191 Part-Time Cooperative Education 1: Real Estate 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

RE 192 Part-Time Cooperative Education 2: Real Estate 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: RE 191

RE 193 Part-Time Cooperative Education 3: Real Estate 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: RE 192

RE 194 Part-Time Cooperative Education 4: Real Estate 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: RE 193

RE 195 Part-Time Cooperative Education 5: Real Estate 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: RE 194

RE 196 Part-Time Cooperative Education 6: Real Estate 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: RE 195

RE 198 First Year Special Topics in Real Estate 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Real Estate, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

RE 199 First Year Independent Project in Real Estate 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Real Estate that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Real Estate faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

RE 291 Full-Time Cooperative Education 1: Real Estate 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

RE 292 Full-Time Cooperative Education 2: Real Estate 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: RE 291

RE 293 Full-Time Cooperative Education 3: Real Estate 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: RE 292

RE 298 Second Year Special Topics in Real Estate 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Real Estate, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

RE 299 Second Year Independent Project in Real Estate 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Real Estate that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Real Estate faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

REL

Courses

REL 105 World Religions

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Comparative study of the major religions of the world. Topics include: foundation and historical development, cultural function, and religious traditions of Hinduism, Islam, Buddhism, Daoism, Confucianism, Jainism, Shintoism, Judaism, Christianity, and other religious movements.

Prerequisites: ENG 101

Ohio Transfer Module Approved

REL 110 The Old Testament

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Nonsectarian study of the Hebrew Bible/Christian Old Testament Bible. Topics include: historical background, authorship, literary themes and forms, and contemporary biblical scholarship.

Prerequisites: ENG 101

REL 115 The New Testament

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Nonsectarian study of the Christian New Testament Bible. Topics include: historical background, authorship, literary themes and forms, and contemporary biblical scholarship..

Prerequisites: ENG 101

REL 198 First Year Special Topics in Religion 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Religion, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

REL 199 First Year Independent Project in Religion 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Religion that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Religion faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

REL 298 Second Year Special Topics in Religion

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Religion, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

REL 299 Second Year Independent Project in Religion 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Religion that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Religion faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

RT

Courses

RT 100 Introduction to Respiratory Care

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on fundamental concepts in the field of Respiratory Care. Topics include: history of respiratory care, time management, communication, team building, diversity, patient rights and confidentiality, professional ethics, and death and dying. Prerequisites: Respiratory Care Program Chair consent Instructor Consent Required

RT 101 Respiratory Care Science 1 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on fundamentals of pulmonary patient care. Topics include: patient assessment, moving, and positioning; oxygen therapy; humidity and aerosol therapies; hospital safety; infection control; respiratory pharmacology; and medical ethics.

Prerequisites: PHY 110 or high school physics within the past 6 years (minimum grade C), and Respiratory Care Technology Program Chair consent

Instructor Consent Required

RT 102 Respiratory Care Science 2

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A continuation of RT 101. Topics include: artificial airways, airway suctioning, cleaning and sterilizing equipment, expansion therapy, bronchial hygiene therapies, pulmonary imaging, intubation, non-invasive ventilation, newborn development, and newborn congenital diseases and conditions.

Prerequisites: RT 100 and RT 101 and RT 172 (minimum grade C for all)

RT 103 Mechanical Ventilation

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on infant and adult mechanical ventilation. Topics include: indications, assessment, application, monitoring, weaning, and modes of mechanical ventilation.

Prerequisites: RT 102 and RT 111 and RT 173 (minimum grade C for all)

RT 111 Respiratory Care Clinical Practice 1 2 Credits. 1 Lecture Hour. 8 Lab Hours.

Students practice using respiratory care skills for basic floor therapy in the hospital environment. Topics include: medications administration, oxygen therapy, bronchial hygiene, expansion therapy, and humidification

Prerequisites: RT 100 and RT 101 and RT 172 (minimum grade C for all)

RT 112 Respiratory Care Clinical Practice 2 2 Credits. 1 Lecture Hour. 16 Lab Hours.

A continuation of RT 111. Students practice respiratory care skills and responsibilities in a hospital setting. Topics include: critical care and mechanical ventilation, pulmonary functions, operating room observation, and hyperbaric oxygen.

Prerequisites: RT 102 and RT 111 and RT 173 (minimum grade C for all)

RT 172 Cardiopulmonary Anatomy and Physiology 4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on the anatomy and physiology of the respiratory and circulatory systems. Topics include: ventilation, diffusion, O2 and CO2 transport, acid/base balance, circulation, ventilation/perfusion (VQ) relationships, compliance, resistance, deadspace, and basic ECG interpretation

Prerequisites: Respiratory Care Program Chair consent Instructor Consent Required

RT 173 Cardiopulmonary Disease

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on cardiopulmonary diseases and the diagnosis, treatment, and prognosis of each disease. Topics include: pulmonary diseases and conditions, pulmonary function testing and interpretation, and use of testing in diagnosing pulmonary diseases.

Prerequisites: RT 100 and RT 101 and RT 172 (minimum grade C for all)

RT 198 First Year Special Topics in Respiratory Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Respiratory Care, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

RT 199 First Year Independent Project in Respiratory Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Respiratory Care that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Respiratory Care faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

RT 201 Advanced Respiratory Critical Care 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on caring for the critically ill respiratory care patient. Topics include: critical care assessment, medications, hemodynamic monitoring, and critical diseases and conditions.

Prerequisites: RT 103 and RT 112 (minimum grade C for both)

RT 202 Specialties in Respiratory Care 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on specialized areas of respiratory care and emerging roles for the respiratory therapist. Topics include: bronchoscopy, tracheostomy, burn care, chest tubes, metabolic testing, exercise testing, pulmonary rehabilitation, capnography, and other specialty areas.

Prerequisites: RT 103 and RT 112 (minimum grade C for both)

RT 203 Respiratory Care Seminar

2 Credits. 1 Lecture Hour. 2 Lab Hours.

Students review theory and practice in respiratory care to prepare for national certification examinations. Topics include: Advanced Cardiovascular Life Support (ACLS), starting intravenous therapy (IVs), and transitioning from student to professional.

Prerequisites: RT 201 and RT 202 and RT 211 (minimum grade C for all)

RT 204 Respiratory Care Capstone

1 Credit. 0 Lecture Hour. 2 Lab Hours.

Students complete a research project in an approved specialty area in the field of respiratory care.

Prerequisites: RT 201 and RT 202 and RT 211 (minimum grade C for all)

RT 211 Respiratory Clinical Practice 3 2 Credits. 1 Lecture Hour. 16 Lab Hours.

A continuation of RT 112. Students practice skills and responsibilities for care of ventilator patients in the intensive care unit of a hospital. Topics include: mechanical ventilation, respiratory equipment, home care, neonatal and pediatrics care, and pulmonary rehabilitation. Prerequisites: RT 103 and RT 112 (minimum grade C for both)

RT 212 Respiratory Clinical Practice 4 2 Credits. 1 Lecture Hour. 16 Lab Hours.

A continuation of RT 211. Students complete an internship and practice respiratory care skills and responsibilities in multiple healthcare settings. Clinical rotations include: ECG and vascular testing, burn care, extended care facilities, and critical care. Prerequisites: RT 201 and RT 202 and RT 211 (minimum grade C for

RT 298 Second Year Special Topics in Respiratory Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Respiratory Care, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

RT 299 Second Year Independent Project in Respiratory Care 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Respiratory Care that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Respiratory Care faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SCM

Courses

SCM 105 Principles of Supply Chain Management 3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on fundamentals of supply chain management and operations. Topics include: logistics, distribution, warehousing, material handling, material flow, transportation, procurement, and tracking. Prerequisites: AFL 080 or appropriate placement test score

SCM 110 Warehousing and Distribution 3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on warehouse management and distribution skills, including OSHA General Industry Training and forklift operator safety training. Topics include: material handling equipment, information technology tools, receiving, order picking, shipping, inventory management, and storage.

Prerequisites: None

SCM 115 Manufacturing Planning in Supply Chain Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on operational frameworks, challenges, and opportunities posed by supply chain management and sustainability trends. Topics include: demand forecasting, master production planning, lean production, push and pull production systems, capacity requirements planning, and inventory management.

Prerequisites: SCM 105

SCM 120 Transportation Systems

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on laws, policies, and procedures related to transportation by ground, rail, air, and water. Topics include: planning, traffic management, environmental compliance, and relationships among suppliers, producers, and consumers.

Prerequisites: None

SCM 191 Part-Time Cooperative Education 1: Supply Chain Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

SCM 192 Part-Time Cooperative Education 2: Supply Chain Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate?s degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 191

SCM 193 Part-Time Cooperative Education 3: Supply Chain Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate?s degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: SCM 192

SCM 194 Part-Time Cooperative Education 4: Supply Chain Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate?s degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 193

SCM 195 Part-Time Cooperative Education 5: Supply Chain Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate?s degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 194

SCM 196 Part-Time Cooperative Education 6: Supply Chain Management

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate?s degree participate in their sixth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 195

SCM 198 First Year Special Topics in Supply Chain Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Supply Chain Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

SCM 199 First Year Independent Project in Supply Chain Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Supply Chain Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Supply Chain Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SCM 205 Inventory Management and Control 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on inventory management and movement of materials. Topics include: independent and dependent demand methods, material management, manufacturing principles, predicting demand, just-in-time operations, quality control, and tracking and logistics technologies.

Prerequisites: SCM 105

SCM 210 Procurement Management 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on procurement principles and practices. Topics include: strategic planning, quality control, purchasing laws and ethics, cost estimating, contract management, inventory control, and risk management.

Prerequisites: SCM 105

SCM 290 Supply Chain Management Capstone 3 Credits. 2 Lecture Hours. 2 Lab Hours.

Students use case studies and simulations to examine the entire scope of Supply Chain Management, including functional and decision-making areas such as distribution, transportation, inventory management, procurement, and logistics.

Prerequisites: SCM 210

SCM 291 Full-Time Cooperative Education 1: Supply Chain Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190 (minimum grade C)

SCM 292 Full-Time Cooperative Education 2: Supply Chain Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate?s degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 291

SCM 293 Full-Time Cooperative Education 3: Supply Chain Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate?s degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 292

SCM 294 Internship 1: Supply Chain Management

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate?s degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: BUS 190

SCM 295 Internship 2: Supply Chain Management 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate?s degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SCM 294

SCM 298 Second Year Special Topics in Supply Chain Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Supply Chain Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SCM 299 Second Year Independent Project in Supply Chain Management

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Supply Chain Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Supply Chain Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SET

Courses

SET 110 HTML for Programmers

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on client-side web development from a programmer's perspective. Topics include: HTML, JavaScript, cascading style sheets (CSS), the document object model (DOM), dynamic HTML (DHTML), and regular expressions.

Prerequisites: None

Cincinnati State

SET 151 C Programming 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of the C computer programming language. Topics include: decision statements, loops, functions, arrays, strings, structures, pointers, and dynamic memory allocation.

Prerequisites: IT 101

SET 191 Part-Time Cooperative Education 1: Software Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

SET 192 Part-Time Cooperative Education 2: Software Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: SET 191

SET 193 Part-Time Cooperative Education 3: Software Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 192

SET 194 Part-Time Cooperative Education 4: Software Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 193

SET 195 Part-Time Cooperative Education 5: Software Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 194

SET 196 Part-Time Cooperative Education 6: Software Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 195

SET 198 First Year Special Topics in Software Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Software Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

SET 199 First Year Independent Project in Software Engineering Technology

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Software Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Software Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

SET 252 C Programming 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of SET 151, using the C++ computer programming language. Topics include: classes, object-oriented programming techniques, polymorphism, inheritance, encapsulation, pointers, memory management, overloading, templates, and advanced data structures.

Prerequisites: SET 151

SET 253 C Programming 3

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of SET 252, using the C# computer programming language. Topics include: program design, database programming techniques using stored procedures, and views with SQL Server.

Prerequisites: IT 111 and SET 252

SET 290 Software Engineering Technology Capstone 3 Credits. 1 Lecture Hour. 4 Lab Hours.

Students apply their programming and database skills to complete a software application.

Prerequisites: IT 103 and IT 111 and SET 252

SET 291 Full-Time Cooperative Education 1: Software Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

SET 292 Full-Time Cooperative Education 2: Software **Engineering Technology**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 291

SET 293 Full-Time Cooperative Education 3: Software **Engineering Technology**

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 292

SET 294 Internship 1: Software Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

SET 295 Internship 2: Software Engineering Technology 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: SET 294

SET 298 Second Year Special Topics in Software Engineering **Technology**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Software Engineering Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

SET 299 Second Year Independent Project in Software **Engineering Technology**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Software Engineering Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Software Engineering Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

SOC

Courses

SOC 100 Survey of Social Issues

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of societal issues such as divorce, immigration, welfare, crime, terrorism, and other topics.

Prerequisites: None

SOC 105 Introduction to Sociology

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and theories of contemporary sociology. Topics include: sociology as a science, culture, socialization, social change, deviance, and major social institutions such as family, religion, education, and government.

Prerequisites: AFL 085 or appropriate placement test score

Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

SOC 110 Social Problems

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and theories related to social problems in contemporary society. Topics include: poverty, race, immigration, urbanization, aging, politics and economy, media and technology, and war and terrorism.

Prerequisites: SOC 105 and ENG 101 Ohio Transfer Assurance Guide Approved

SOC 115 Marriage and the Family

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and theories related to marriage and family as social institutions. Topics include: historical perspectives on marriage, male and female roles, parenting, impact of family on the individual,

and impact of society on marital roles. Prerequisites: SOC 105 and ENG 101 Ohio Transfer Module Approved

Ohio Transfer Assurance Guide Approved

SOC 120 The African American Family 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on interdisciplinary concepts and theories related to contemporary African American families. Topics include: family life and social stratification; dynamics of middle class, working class, and low income families; and social and economic support structures for families.

Prerequisites: SOC 105 and ENG 101

SOC 130 Sociology of Aging

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and theories of aging. Topics include: the aging process and the impact of an aging population on individuals and social institutions.

Prerequisites: SOC 105 and ENG 101 Ohio Transfer Module Approved

SOC 140 Sociology of Gender

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and theories of gender. Topics include: development of sex roles, how sex roles affect individuals and social institutions, and changing role patterns in the United States and elsewhere.

Prerequisites: SOC 105 and ENG 101 Ohio Transfer Module Approved

SOC 198 First Year Special Topics in Sociology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Sociology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

SOC 199 First Year Independent Project in Sociology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to sociology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Sociology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SOC 200 Race, Ethnicity, and Minorities 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts and theories of race and ethnicity within society. Topics include: the effects of prejudice and discrimination on individuals and social institutions.

Prerequisites: SOC 105 and six credits of English Composition Ohio Transfer Assurance Guide Approved

SOC 298 Second Year Special Topics in Sociology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Sociology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SOC 299 Second Year Independent Project in Sociology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Sociology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Sociology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SPN

Courses

SPN 100 Spanish for the Professions 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course that prepares non-Spanish-speaking students to use Spanish language commands and phrases related to their careers, and to understand cross-cultural concerns that affect interactions with native Spanish speakers. No prior knowledge of Spanish is necessary.

Prerequisites: None

SPN 101 Elementary Spanish 1

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on Spanish language and culture that provides the foundation for understanding, speaking, reading, and writing Spanish.

Prerequisites: None

SPN 102 Elementary Spanish 2

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of SPN 101. Topics include: developing skills in understanding, speaking, reading, and writing Spanish. Prerequisites: SPN 101 or Spanish Department chair consent

SPN 198 First Year Special Topics in Spanish 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Spanish, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SPN 199 First Year Independent Project in Spanish 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Spanish that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Spanish faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SPN 200 Spanish Conversation and Composition 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on developing fluency in conversational and written Spanish while examining contemporary topics relevant to diverse elements of Hispanic/Latino culture.

Prerequisites: SPN 102 or Spanish Department chair consent

SPN 201 Intermediate Spanish 1

4 Credits, 4 Lecture Hours, 0 Lab Hour,

A continuation of SPN 102. Topics include: developing fluency in Spanish grammar and syntax through reading short literary pieces, composition, and conversation.

Prerequisites: SPN 102 or Spanish Department chair consent

SPN 202 Intermediate Spanish 2

4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of SPN 201. Topics include: developing additional skills and fluency in Spanish through reading short literary pieces, composition, and conversation.

Prerequisites: SPN 201 or Spanish Department chair consent

SPN 221 Spanish 1 for Business and Finance 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on developing fluency in Spanish grammar and syntax through reading, writing, and speaking about business and finance-related topics.

Prerequisites: SPN 102 or Spanish Department chair consent

SPN 222 Spanish 2 for Business and Finance 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of SPN 221. Topics include: developing additional skills and fluency in Spanish through reading, writing, and speaking about business and finance-related topics.

Prerequisites: SPN 221 or Spanish Department chair consent

SPN 290 Study Abroad Service Learning

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students participate in global cultural experiences through travel, service learning, and sustainable community development projects. Students must complete 20 hours of classroom activities prior to the group travel experience. Fluency in Spanish is desirable but not required.

Prerequisites: Minimum GPA of 2.0, and not on academic probation, and instructor consent

Instructor Consent Required

SPN 298 Second Year Special Topics in Spanish 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Spanish, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

SPN 299 Second Year Independent Project in Spanish 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Spanish that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Spanish faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SPT

Courses

SPT 100 Introduction to Sport Management

3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on the sport industry and the role of sport management. Topics include: the functions of sport in society, athletic administration, and educational and career pathways in sport management. Prerequisites: AFL 085 or appropriate placement test score

SPT 105 Sport in Society

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the scope and effect of sport and physical activity in society. Topics include: business of sport, media and sport, sporting behavior, diversity and sport, and women and sport.

Prerequisites: None

SPT 110 Principles of Coaching

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the role of the coach and coaching in sport. Topics include: concepts, functions, and techniques related to coaching athletes in various team and individual sports.

Prerequisites: None

SPT 115 Ethics in Sport

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on ethical concerns in the sport industry. Topics include: moral reasoning, values in sport, sportsmanship, and ethical dilemmas and legal issues in sport.

Prerequisites: SPT 100

SPT 120 Sport Marketing

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on principles and techniques for sport marketing. Topics include: fundamental marketing concepts, advertising, public relations, sponsorships, promotions, and merchandizing.

Prerequisites: SPT 100

SPT 198 First Year Special Topics in Sport Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Sport Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SPT 199 First Year Independent Project in Sport Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Sport Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Sport Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SPT 298 Second Year Special Topics in Sport Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Sport Management, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SPT 299 Second Year Independent Project in Sport Management 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Sport Management that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Sport Management faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ST

Courses

ST 100 Introduction to Surgical Technology 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on the history and development of surgical technology. Topics include: the perioperative environment, surgical instrumentation, the surgical technologist's role and attributes for success, professional organizations, and legal terms related to the profession.

Prerequisites: None

ST 101 Surgical Foundations and Procedures 1 6 Credits. 6 Lecture Hours. 0 Lab Hour.

A course on concepts and skills for surgical technology. Topics include: professional and workplace management; medical terminology; informatics; patient care; surgical asepsis and infection control; decontamination, disinfection, and reprocessing methods; instrumentation; sterile storage and distribution; basic pharmacology; anesthesia; specimen care; and surgical supplies and equipment. Prerequisites: Admitted to the ST program through the selective enrollment process, and ST 100 and BIO 151 and MAT 105, and one FYE course (minimum grade C for all), and instructor consent Instructor Consent Required

ST 102 Surgical Foundations and Procedures 2 6 Credits. 6 Lecture Hours. 0 Lab Hour.

A continuation of ST 101. Topics include: wound classifications; wound healing; tissue approximation; sutures; abdominal incisions; and procedural steps for abdominal wall hernia repairs, and gastrointestinal and accessory organs, breast, gynecological, obstetrical, and plastic/ reconstructive surgery.

Prerequisites: BIO 152 and BIO 220 and ST 101 (minimum grade C for all), and ST 111

ST 111 Surgical Principles and Practice 1

2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course that prepares students to perform assistant circulating skills through activities conducted in a simulated operating room setting on campus.

Prerequisites: Admitted to the ST program through the selective enrollment process, and ST 100 (minimum grade of C), and instructor consent

Instructor Consent Required

ST 112 Surgical Principles and Practice 2 2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course that prepares students to perform first scrub role skills through activities conducted in a simulated operating room setting on campus.

Prerequisites: ST 101 (minimum grade C), and ST 111

ST 181 Surgical Technology Clinical Skills Application 1 2 Credits. 1 Lecture Hour. 3 Lab Hours.

Students participate in uncompensated clinical experiences performing beginning-level assistant circulating skills in the operating room of an affiliate hospital, and attend a weekly seminar.

Prerequisites: ST 101 (minimum grade C), and ST 111

ST 182 Surgical Technology Clinical Skills Application 2 2 Credits. 0 Lecture Hour. 6 Lab Hours.

A continuation of ST 181. Students perform uncompensated beginning-level scrub skills during assigned operative procedures at an affiliate hospital. Students' skills are evaluated in relation to future employment.

Prerequisites: ST 102 (minimum grade C), and ST 112 and ST 181 $\,$

ST 198 First Year Special Topics in Surgical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Surgical Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

ST 199 First Year Independent Project in Surgical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Surgical Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Surgical Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

ST 201 Advanced Surgical Procedures 1 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A course on specialized surgical procedures. Topics include: otorhinolaryngology procedures including head/neck and oral maxillary surgery; and ophthalmic, genitourinary, and orthopedic surgery.

Prerequisites: ST 102 (minimum grade C), and ST 112 and ST 181

ST 202 Advanced Surgical Procedures 2 4 Credits. 4 Lecture Hours. 0 Lab Hour.

A continuation of ST 201. Topics include: perivascular, thoracic, cardiac, neurology, and transplant surgery, and pediatric procedures. Prerequisites: ST 201 (minimum grade C), and ST 182

ST 281 Surgical Technology Clinical Directed Practice 1 5 Credits. 1 Lecture Hour. 24 Lab Hours.

Students demonstrate competency in scrub skills related to general and specialty operative procedures at an assigned affiliate hospital, and attend a weekly seminar on campus.

Prerequisites: ST 201 (minimum grade C), and ST 182

ST 282 Surgical Technology Clinical Directed Practice 2 5 Credits. 1 Lecture Hour. 24 Lab Hours.

A continuation of ST 281. Students demonstrate competency in scrub skills while performing assigned procedures at an affiliate hospital, and attend a weekly seminar on campus. Students must complete the National Board of Surgical Technology and Surgical Assisting (NBSTSA) certification examination as a course requirement. Prerequisites: ST 202 (minimum grade C), and ST 281

ST 298 Second Year Special Topics in Surgical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Surgical Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: None

ST 299 Second Year Independent Project in Surgical Technology 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Surgical Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Surgical Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

STFA

Courses

STFA 150 Perioperative Bioscience 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts of perioperative bioscience. Topics include: advanced microbiology and pathology, surgical pharmacology, and anesthesia management.

Prerequisites: Admitted to the STFA Certificate Program Instructor Consent Required

STFA 155 Principles of First Assisting 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on the history and role of the first assistant. Topics include: performing perioperative functions; moral, ethical, and legal responsibilities; surgical interventions for specific patient groups; complications and surgical emergencies; and career options.

Prerequisites: Admitted to STFA Certificate Program

Instructor Consent Required

STFA 161 Surgical Specialties 1 7 Credits. 7 Lecture Hours. 0 Lab Hour.

A course on the first assistant's role in a variety of surgical procedures. Topics include: general surgery; endoscopic procedures; and gynecological, obstetrical, genitourinary, plastic/reconstructive, otorhinolaryngologic, and pediatric procedures.

Prerequisites: STFA 150, STFA 155 (minimum grade C for both)

STFA 162 Surgical Specialties 2

7 Credits. 7 Lecture Hours. 0 Lab Hour.

A continuation of STFA 161. Topics include: orthopedic, ophthalmic, neurosurgical, perivascular, thoracic, cardiac, and pediatric surgical procedures.

Prerequisites: STFA 161 (minimum grade C)

STFA 181 First Assisting Clinical 1

2 Credits. 1 Lecture Hour. 12 Lab Hours.

Students complete an individualized clinical practicum to demonstrate manual and behavioral skills under the preceptorship of a surgeon at a facility of student's choice. Skills application includes: general surgery; and endoscopic, gynecological, obstetrical, genitourinary, plastic/reconstructive, otorhinolaryngologic, and pediatric procedures.

Prerequisites: STFA 150, STFA 155 (minimum grade C for both)

STFA 182 First Assisting Clinical 2 2 Credits. 1 Lecture Hour. 12 Lab Hours.

A continuation of STFA 181. Students must complete the required number of procedures, under the supervised preceptorship of a surgeon, in any combination of the following surgical specialties: pediatric, orthopedic, ophthalmic, neurosurgical, perivascular, thoracic, and cardiac surgical procedures.

Prerequisites: STFA 181

STFA 198 First Year Special Topics in Surgical Technology First **Assisting**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Surgical Technology First Assisting, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

STFA 199 First Year Independent Project in Surgical Technology First Assisting

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Surgical Technology First Assisting that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Surgical Technology First Assisting faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

STFA 298 Second Year Special Topcs in Surgical Technology **First Assisting**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Surgical Technology First Assisting, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: None

STFA 299 Second Year Independent Project in Surgical **Technology First Assisting**

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Surgical Technology First Assisting that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Surgical Technology First Assisting faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SWK

Courses

SWK 110 Introduction to Social Work

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the social work profession. Topics include: social work institutions, values, ethics, and modes of practice with varying systems and populations.

Prerequisites: ENG 101, SOC 105 Ohio Transfer Assurance Guide Approved

SWK 198 First Year Special Topics in Social Work 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Social Work, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SWK 199 First Year Independent Project in Social Work 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Social Work that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Social Work faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

SWK 200 Social Welfare Policy

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on the relationships between policy, practice, and problem solving that contribute to delivery of social services to alleviate human suffering and promote social justice.

Prerequisites: SWK 110

Ohio Transfer Assurance Guide Approved

SWK 205 Case Management for Human Services Professionals 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on theoretical concepts and professional skills for providing social services within the social welfare system.

Prerequisites: SWK 200

SWK 215 Human Services Practicum 2 Credits. 1 Lecture Hour. 7 Lab Hours.

Students spend at least seven hours per week in a supervised experience in a social service setting.

Prerequisites: SWK 110

SWK 298 Second Year Special Topics in Social Work 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Social Work, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

SWK 299 Second Year Independent Project in Social Work 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Social Work that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Social Work faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

TRF

Courses

TBE 101 Introduction to Incident Management Operations 1 Credit, 1 Lecture Hour, 0 Lab Hour,

This course based on NFPA Standards 1026 & 1670. This is an introductory course on Incident Management Operations Topics include: Hazard Identification and Risk Assessment, Incident Response Planning, roles and responsibilties of Incident Command System staff officers, FEMA NIMS, rescue operations strategy & tactics, and responder safety

Prerequisites: None

TBE 102 Rope Rescue Operations 2.5 Credits, 2 Lecture Hours, 1 Lab Hour,

A course based on NFPA Standards 1006 and 1670. Topics include: rope design, rescue knots, anchoring systems, mechanical advantage, load calculations, rappelling, and vertical rescue techniques.

Prerequisites: None

TBE 103 Water Search and Rescue Operations 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course based on NFPA standards 1006 and 1670 for Swift Water Rescue operations to rescue victims from a hazardous water environment. Topics include: using rescue lines, tactics of rescue swimming operations, water-rope operations, and rescue boat operations.

Prerequisites: None

TBE 104 Permit-Required Confined Space Entry and Rescue 2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on entry and rescue operations pertaining to permit-required confined spaces. Topics include: confined space entry techniques, air monitoring, rescue equipment, and rescue techniques.

Prerequisites: None

TBE 105 Search and Rescue Operations 1 Credit. 1 Lecture Hour. 1 Lab Hour.

A course based on NFPA Standards 1006 and 1670 for Search and Rescue Operations to search for lost individuals in a rural or wilderness environment. Topics include: search operations tactics, map reading, land navigation, use of GPS, helicopter search operations, and search dogs.

Prerequisites: None

TBE 106 Trench Rescue Operations

2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on trench rescue operations as outlined in the 1006 & 1670 NFPA standards. Topics include: soil typing, trench safety, trench shoring, rescue equipment,air monitoring, victim packaging and extrication and rescue strategy techniques.

Prerequisites: None

TBE 107 Structure Collapse Rescue

2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on FEMA and NFPA structural collapse rescue standard. Topics include: building design, civil engineering principles, structural shoring, structural concrete, and rescue techniques.

Prerequisites: None

TBE 108 Vehicle Extrication Operations 1 Credit. 1 Lecture Hour. 1 Lab Hour.

A course, based on NFPA Stanrads 1006 & 1670, on vehicle design

and entraped victim rescue techniques. Topics include: truck, car and bus design; pneumatic and hydraulic equipment; structural shoring; and victim stabilization and extraction.

Prerequisites: None

TBE 109 Machinery Rescue Operations 1 Credit. 1 Lecture Hour. 1 Lab Hour.

A course based on NFPA Standards 1006 & 1670. Machinery rescue techniques involving victims trapped in machinery. Topics include: design and operations, crushed and amputations, victim extractions, pneumatic and hydraulic tools, and use of pneumatics and hydraulic rescue equipment.

Prerequisites: None

TBE 198 Special Topics in Rescue and Safety 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Rescue and Safety that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

TBE 199 Special Projects in Rescue and Safety 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Rescue and Safety that gives students opportunities to study information not currently covered in other courses. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

TBE 298 Year 2 Special Topics in Technical Rescue & Incident Command

1-4 Credits. 0 Lecture Hour. 0 Lab Hour.

An advanced course on selected topics related to Technical Rescue & Incident Command that gives students opportunities to study information not currently covered in other courses.

Prerequisites: None

Instructor Consent Required

TC

Courses

TC 205 Scriptwriting: Short Forms 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing scripts for short form electronic media messages such as commercials and public service announcements. Topics include: analyzing audiences and products; conducting

research; preparing copy platforms, scripts, and storyboards; and persuasively presenting concepts.

Prerequisites: MKT 115 and 6 credits of English Composition (minimum grade C for all)

TC 210 Scriptwriting: Long

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing scripts for long form electronic media messages such as instructional and promotional video and documentaries. Topics include: analyzing audiences and products; conducting research; preparing documentation, scripts, and storyboards; and persuasively presenting concepts.

Prerequisites: MKT 115 and 6 credits of English Composition (minimum grade C for all)

TC 215 Copywriting

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing promotional messages for print and online distribution. Topics include: analyzing audiences and products, conducting research, developing concepts, preparing copy platforms, selecting writing styles and formats, and designing materials. Prerequisites: MKT 115 and 6 credits of English Composition (minimum grade C for all)

TC 220 Instructional Writing

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing instructional materials for print and multimedia distribution. Topics include: analyzing audiences and tasks; creating and revising content; and applying best practices for print, online, and digital document design.

Prerequisites: 6 credits of English Composition, and IM 111 (minimum grade C for all)

TC 225 Proposal Writing

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing effective proposals to obtain project funding. Topics include: developing strategy; conducting research; interpreting requirements; and organizing, designing, and writing proposals. Prerequisites: 6 credits of English Composition and IM 111 (minimum grade C for all)

TC 230 Writing Online Content

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on developing content for websites and Web-supported publishing such as blogs and e-newsletters. Topics include: analyzing audiences and goals, selecting writing styles, creating and revising content, and applying best practices for online and digital document

Prerequisites: 6 credits of English Composition and WEB 111 (minimum grade C for all)

TC 235 User Experience Design and Usability Assessment 3 Credits, 2 Lecture Hours, 3 Lab Hours,

A course on concepts and techniques for designing and testing online products used by varied audiences. Topics include: principles of user experience design, developing qualitative and quantitative test materials, implementing tests, and reporting on test results. Prerequisites: 6 credits of English Composition and WEB 111 (minimum grade C for all)

TC 240 Technical Editing

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on editorial concepts and techniques. Topics include: editorial roles, editorial assessment processes, levels of edit, traditional and digital copymarking, and stylebooks and editorial resources. Prerequisites: 6 credits of English Composition and IM 111 (minimum grade C for all)

TC 298 Second Year Special Topics in Technical Communication 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Technical Communication, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Vary by section

TC 299 Second Year Independent Project in Technical Communication

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Technical Communication that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Technical Communication faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor approval

TEC

Courses

TEC 110 Nurse Aide Train-the-Trainer

2 Credits, 2 Lecture Hours, 0 Lab Hour,

A state-approved course for nurses teaching either the classroom or clinical supervision portions of an approved Training and Competency Evaluation program for long-term care Nurse Aides.

Prerequisites: None

TEC 198 Special Topics in Health Business 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health Business that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

TEC 199 Special Projects in Health Business 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Health Business that gives students opportunities to study information not currently covered in other courses. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

TEM

Courses

TEM 105 Installation of Solar Thermal Systems 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course for individuals seeking to become installers of solar thermal systems. Topics include: fundamental concepts of solar thermal systems; and design, installation, troubleshooting, and commissioning of systems.

Prerequisites: None

TEM 107 Install Photovoltaic Sys 3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on fundamental concepts and techniques for installing solar photovoltaic (PV) systems. Topics include: designing PV systems and safely installing solar-electric systems. This course prepares students for the NABCEP PV Entry Level Certificate of Knowledge exam.

Prerequisites: None

TEM 110 Electrical Systems

1 Credit. 1 Lecture Hour. 0 Lab Hour.

An course on electrical systems found in a manufacturing facility. Topics include: motors and motor control, meters and testing devices, power distribution, and electrical systems.

Prerequisites: None

TEM 115 Electrical Safety

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on electrical safety issues based on NFPA 70E. Topics include: electrical hazards, comparison of qualified and non-qualfied workers, lockout/tagout, safe electrical work practices, and PPE. Prerequisites: None

TEM 120 Industrial Electricity for AC and DC Circuits 2.5 Credits, 2 Lecture Hours, 1 Lab Hour,

A course on fundamental concepts and safe maintenance techniques used when working with electrical devices and applications.

Prerequisites: None

TEM 125 Industrial Electronic Devices 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on theory, operation, application, and troubleshooting of solid-state devices used in industrial equipment and controls. Topics include: semi-conductors; transistors as switches; and amplifiers, SCRs, LEDs, and integrated circuits.

Prerequisites: None

TEM 130 Electrical Control System Devices

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on the devices typically found in an industrial control panel, including relays, timers, contactors, terminal blocks, and control transformers.

Prerequisites: None

TEM 140 Electrical Ladder Diagrams and Print Reading 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on concepts and skills needed to interpret electrical prints and construct electrical ladder diagrams.

Prerequisites: None

TEM 150 Industrial Power Systems

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on concepts and skills for working with modern power distribution systems. Topics include: transformers, circuit protection, 1line diagrams, grounding, switch gears, and electrical safety.

Prerequisites: None

TEM 160 Motors. Motor Controls, and Drives 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course for maintenance personnel involved in selection, installation, and troubleshooting of industrial 480 three-phase motors, controls and frequency drives. Topics include: control circuits, overload protection, and auxiliary control devices.

Prerequisites: None

TEM 165 Motion Control Devices and Systems 1.5 Credit. 1 Lecture Hour. 1 Lab Hour.

A course for the industrial electrician or electrical maintenance technician responsible for installing or troubleshooting motion control devices. Topics include: types and applications of motion control devices used in industry.

Prerequisites: None

TEM 170 Sensors for Industrial Control Systems 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course for maintenance personnel covering selection, installation, and troubleshooting of discrete and analog sensors commonly found in manufacturing operations. Topics include: limit switches, pressure switches, proximity switches, photo eye sensors, process sensors with analog outputs, and motion sensors.

Prerequisites: None

TEM 175 Variable Frequency Drives 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on application, selection, installation, programming, and troubleshooting of Variable Frequency Drives (VFDs) used in industry. Topics include: test equipment and motor controls; hardware identification; and determining parameter values for load, torque, and speed.

Prerequisites: None

TEM 180 Programmable Logic Controllers 1 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on operation, installation, basic programming, and troubleshooting of programmable logic controllers (PLCs) using Allen Bradley SLC-500 and CompactLogix PLCs.

Prerequisites: None

TEM 185 Programmable Logic Controllers 2 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of TEM 180, emphasizing techniques used by electricians or instrument technicians who install and troubleshoot advanced PLCs. Topics include: advanced and special program instruction, Human-Machine Interface (HMIs), and communication networks.

Prerequisites: TEM 180

TEM 190 Troubleshooting Industrial Electrical Equipment 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on systematic approaches for troubleshooting electrical equipment used in industry.

Prerequisites: None

TEM 198 Special Topics in Industrial Maintenance 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Industrial Maintenance that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

TEM 199 Special Projects in Industrial Maintenance 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Industrial Maintenance that gives students opportunities to study information not currently covered in other courses. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

THF

Courses

THE 105 Theater Appreciation

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study of theater as a mode of human expression. Topics include: script analysis, acting styles, directing, and design elements and how these elements contribute to a successful production. Attending one live production is required.

Prerequisites: AFL 085 (minimum grade C) or appropriate placement test score

Ohio Transfer Module Approved

THE 110 History of Theater

3 Credits, 3 Lecture Hours, 0 Lab Hour,

Study of the history of Western theater from classical antiquity through contemporary times and examination of each period's contribution to modern theatrical practices. Out-of-class viewing of plays on video is required.

Prerequisites: ENG 101

Ohio Transfer Module Approved

THE 115 Acting

3 Credits. 3 Lecture Hours. 0 Lab Hour.

Study and practice of creative expression through acting. Topics include: theatrical vocabulary, movement and vocal skills, and preparing for roles through script analysis.

Prerequisites: None

THE 140 Oral Interpretation of Literature 3 Credits, 3 Lecture Hours, 0 Lab Hour,

A course on basic techniques for oral performance of literature. Topics include: content analysis of texts, movement and vocal skills, and performance in everyday lives.

Prerequisites: ENG 101

THE 198 First Year Special Topics in Theater 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Theater, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

THE 199 First Year Independent Project in Theater 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Theater that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Theater faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

THE 240 Performance Practicum 2 Credits. 1 Lecture Hour. 7 Lab Hours.

Study and application of performance principles through facultysupervised participation in a College production. May be repeated for credit.

Prerequisites: THE 140 or instructor consent

THE 298 Second Year Special Topics in Theater 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Theater, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

THE 299 Second Year Independent Project in Theater 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Theater that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Theater faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

THZ

Courses

THZ 101 First Responder-OSHA HAZMAT Operations Level 0.5 Credits. 0.5 Lecture Hour. 0 Lab Hour.

This course is designed to meet the basic operations level to be a hazrdaous materials (HAZMAT) First Responder, Course topics focus on basic hazard recognition/risk assessment and defensive spill containment techniques. This course is designed to meet the OSHA, USEPA, USDOT, & NFPA training requirements for individuals who handle and/or exposed to hazardous substances. A hazardous substances includes hazardous materials and hazardous wastes. Prerequisites: None

THZ 103 HAZMAT (HAZWOPER) Annual Refresher 0.5 Credits. 0.5 Lecture Hour. 0 Lab Hour.

A course that meets the annual refresher training requirements for individuals who perform environmental clean-up remediation work at sites regulated by federal and state environmental protection agencies. This course also meets the OSHA 29 CFR 1910.120 (HAZWOPER) standard and NFPA Standard 472 for Professional Qualifications for Hazardous Materials Responders.

Prerequisites: None

THZ 104 OSHA 24-Hour HAZMAT (HAZWOPER) I Technician 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on defensive and offensive measures that stop and contain hazardous substance spills and releases. Topics include: USDOT HAZMAT labeling, air monitoring, DECON operations, respiratory protections, and spill control. This course meets the OSHA, EPA, NFPA and DOT training requirements for individuals who handle and/ or are exposed to hazardous material and hazardous waste.

Prerequisites: None

THZ 105 OSHA 40-Hour HAZMAT (HAZWOPER) Workshop 3 Credits. 2 Lecture Hours. 1 Lab Hour.

A course for individuals who will perform hazardous materials response activities at the HAZMAT Technician level, and for personnel involved with investigation and remediation of hazardous waste sites and Brown Fields at the General Site Worker Level. This course meets regulatory requirements of OSHA 29 CFR 1910.120 and 29 CFR 1926.62 (Hazardous Waste Operations and Emergency Response), NFPA Standard 472, and USEPA 40 CFR 311.

Prerequisites: None Instructor Consent Required

THZ 106 On-Scene Hazardous Materials and All Hazards Incident **Command Workshop**

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on duties and responsibilities of an On-Scene Incident Commander for all types of hazardous materials and critical incidents. Topics include: National Incident Management System (NIMS), OSHA and FEMA risk assessment, emergency response planning, and HAZMAT strategy and tactics.

Prerequisites: None

THZ 110 Basic Hazardous Materials Chemistry 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A basic chemistry course specifically designed to assist emergeny services and safety professionals who manage or respond to a hazardous material (HAZMAT) event. Topics include: atomic structures, chemical elements, periodic table, chemical bonding, chemical reactions and HAZMAT chemical terminology.

Prerequisites: None

THZ 120 Disaster Preparedness and Business Continuity **Planning**

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course that provides the private and public sector manaagement, emergency services, or safety professional an in-depth understanding of management issues involved in disaster planning and an organization's ability to restore normal business operations. Topics include: emergency response plans, risk assessment, crisis management teams, business continuity planning, and continuity of operations. The course materials are based on Department of Homeland Security (DHS) and NFPA 1600-Business Continuity

Prerequisites: THZ 110

THZ 130 Radiological and Biological Emergency Preparedness

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for emergency services or safety professionals, US military personnel, or private sector risk managers on radiological and biological incidents and their consequences. Topics include: terminology, the National Response Framework (NRF) Plan, biological threats, damage assessment, and containment and recovery protocols. Prerequisites: None

Instructor Consent Required

THZ 140 Introduction to WMD Terrorism 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for emergency services and safety professionals and private sector safety and emergency management professionals on terrorism and employment of weapons of mass destruction (WMD). Topics include: counter-terrorism and anti-terrorism techniques employed by US federal agencies and the US Department of Defense; and use of chemical, biological, radiological, nuclear, and explosives in a terrorist incident.

Prerequisites: None Instructor Consent Required

THZ 141 Consequences of Terrorism 2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for emergency services or safety professionals on understanding how terrorists plan and execute an attack. Topics include: history of terrorism, terrorist tactics and operations, case studies of terrorist attacks, and cultural and political awareness.

Prerequisites: TBE 101 Instructor Consent Required

THZ 150 Disaster Modeling 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course for emergency services or private sector safety professionals on the computer modeling systems used to conduct plume analysis. Topics include: CAMEO (Computer-Aided Management of Emergency Operations), GIS (Geographic Information Systems), WISER (Wireless Information System for Emergency Responders) HAZMAT (Hazardous Material) Response Planning, Emergency Operation Centers, and integration of modeling software into the Common Operating Picture.

Prerequisites: None Instructor Consent Required

THZ 160 Crisis Media Relations 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course for the public and/or private sector spokesperson or public affairs officer on media relations and operations during a crisis. Topics include: types of media, public information officer duties and responsibilities, press kits, media plans, and press briefings.

Prerequisites: None Instructor Consent Required

THZ 198 Special Topics in Hazard Response 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Hazard Response that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

THZ 199 Special Projects in Hazard Response 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Hazard Response that gives students opportunities to study information not currently covered in other courses. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

THZ 298 Second Year Special Topics in HAZMAT Response & Disaster Response Management

0.5-4 Credits. 0 Lecture Hour. 0 Lab Hour.

An advanced course on selected topics related to HAZMAT Response & Disaster Response Management that gives students opportunities to study information not currently covered in other courses.

Prerequisites: None Instructor Consent Required

TOS

Courses

TOS 101 Work Zone Safety

1 Credit. 1 Lecture Hour. 0 Lab Hour.

This course is designed to provide an initial and basic overview of key OSHA 29 CFR Parts 1900-1910 General Industry Safety Standards. It is important to remember that this course shall provide only the basics on Occupational Safety. The course is designed for both the worker and novice safety professional.

Prerequisites: None Instructor Consent Required

TOS 102 Hoisting and Material Handling Safety 2 Credits. 2 Lecture Hours. 0 Lab Hour.

This course is designed to provide the basic knowledge on how to develop an organization's safety program based on the OSHA General Industry regulations; 29 CFR Parts 1900-1910. The overall objective of this course is for the student to obtain the knowledge to develop and administer a comprehensive safety program, it is crucial for a safety professional or a member of management to know where to look and how to apply specific OSHA regulations that effect your organization. Prerequisites: None

Instructor Consent Required

TOS 110 OSHA 10-Hour General Industry Safety and Health Training Course

1 Credit. 0.5 Lecture Hour. 0 Lab Hour.

A course for industrial workers and novice safety professionals on basic concepts of the OSHA General Industry Safety Standards. Prerequisites: None

TOS 111 Osha 30 Hour General Industry Safety and Health Training Course

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course on concepts and techniques needed to develop and administer a comprehensive safety program for an organization. Topics include: applying OSHA regulations that affect the organization. Prerequisites: None

TOS 115 OSHA Permit-Required Confined Space Ent 0.5 Credits. 0.5 Lecture Hour. 0 Lab Hour.

A course on hazards associated with OSHA permit-required confined space entry operations. Topics include: types of confined spaces, lockout/tagout requirements, air monitoring, and equipment for entry. Prerequisites: None

TOS 117 OSHA Confined Space Entry and Basic Rescue (Awareness Level)

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course for individuals who enter and work in an OSHA classified Permit Required Confined Space. Topics include: OSHA Permit Required Confined Space Program requirements, air monitoring, respiratory protection, lockout-tagout, and confined space entry and rescue equipment.

Prerequisites: None

TOS 120 Fall Protection and Scaffolding Safety 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on the OSHA requirements for scaffold and fall protection safety at a constructional and general industry work site, as covered in OSHA 29 CFR 1926 Subparts L and M. Topics include: scaffold inspection techniques, and selecting and using fall protection equipment.

Prerequisites: None

TOS 121 Excavation Safety

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on requirements governing excavation and trenching operations, as covered in OSHA 29 CFR 1926 Subpart P. Topics include: soil mechanics in relation to stability of shored and unshored slopes and walls of excavations, types of shoring (wood timbers and hydraulic), and soil testing methods.

Prerequisites: None

TOS 122 Work Zone Safety

1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on concepts and techniques of work zone safety. Topics include: work zone design, construction, operations, and maintenance; and the Manual on Uniform Traffic Control Devices.

Prerequisites: None

TOS 123 Hoisting and Material Handling Safety 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on safety considerations in hoisting and material handling operations, as covered in OSHA 29 CFR 1926 (Cranes and Material

Prerequisites: None

TOS 124 Electrical Safety 1 Credit. 1 Lecture Hour. 0 Lab Hour.

A course on requirements governing electrical safe work practices at construction and manufacturing sites, as covered in OSHA 29 CFR Part 1926 and in National Fire Protection Standards 70 and 70 E. Prerequisites: None

TOS 130 Safety Trainer and Training Management 1.5 Credit. 1 Lecture Hour. 1 Lab Hour.

A course to train instructors in methods used to teach employees safety practices and to develop safety training programs. Topics include: the adult learning model, teaching methods for adult learners, needs assessment, course and program design, student assessment methods, and documentation and record Keeping. The course is based on criteria from American National Standards (ANSI) Z 490.1-2009.

Prerequisites: None

TOS 198 Special Topics in Occupational Safety 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Occupational Safety that gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

TOS 199 Special Projects in Occupational Safety 0.5-7 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Occupational Safety that gives students opportunities to study information not currently covered in other courses. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Vary by section

TOS 289 Year 2 Special Topics in Occupational Safety & **Regulatory Compliance**

0.5-4 Credits. 0 Lecture Hour. 0 Lab Hour.

An advanced course on selected topics related to Occupational Safety & Regulatory Compliance that gives students opportunities to study information not currently covered in other courses.

Prerequisites: None

Instructor Consent Required

TPI

Courses

TPI 110 Process Control and Instrumentation 1: Pressure Control 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on foundation concepts related to process controls and instrumentation. Topics include: controllers, transmitters, variable frequency drives (VFDs) and control valves, and automatic control techniques. Laboratory exercises include loop wiring, calibration, controller configuration, and troubleshooting.

Prerequisites: None

TPI 120 Process Control and Instrumentation 2: Temperature Control

2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of TPI 110. Topics include: control of temperature and pressure. Activities include laboratory exercises and computer simulations.

Prerequisites: TPI 110

TPI 130 Process Control and Instrumentation 3: Level and Flow 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of TPI 120. Topics include: control of level and flow, installation, calibration, configuration, and troubleshooting. Activities include laboratory exercises.

Prerequisites: TPI 120

TPI 140 Process Control and Instrumentation 4: Final Control 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of TPI 130. Topics include: industry use of final control units; and how to select, install, configure, and troubleshoot pneumatic control valves and variable frequency drives (VFDs). Activities include laboratory exercises.

Prerequisites: TPI 130

TPI 150 Process Control and Instrumentation 5: Analytical Control 2.5 Credits. 2 Lecture Hours. 1 Lab Hour.

A continuation of TPI 140. Topics include: control of analytical and measurement processes such as ORP, pH, conductivity, and chromatography. Activities include laboratory exercises.

Prerequisites: TPI 140

WEB

Courses

WEB 111 Web Development 1

3 Credits. 2 Lecture Hours. 3 Lab Hours.

An introduction to website design using CSS and HTML5.

Prerequisites: None

WEB 112 Web Development 2

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A continuation of WEB 111. Topics include: advanced use of cascading style sheets, and ensuring multi-platform and cross-browser usability of websites.

Prerequisites: WEB 111 (minimum grade C)

WEB 130 Web Programming: JavaScript 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamentals of the JavaScript scripting language.

Prerequisites: WEB 111 (minimum grade C)

WEB 191 Part-Time Cooperative Education 1: Web & Multimedia Design

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

WEB 192 Part-Time Cooperative Education 2: Web & Multimedia Design

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: WEB 191

WEB 193 Part-Time Cooperative Education 3: Web & Multimedia Design

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WEB 192

WEB 194 Part-Time Cooperative Education 4: Web & Multimedia Design

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WEB 193

WEB 195 Part-Time Cooperative Education 5: Web & Multimedia Design

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: WEB 194

WEB 196 Part-Time Cooperative Education 6: Web & Multimedia Design

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: WEB 195

WEB 198 First Year Special Topics in Web & Multimedia Design 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Web & Multimedia Design, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Instructor Approval

WEB 199 First Year Independent Project in Web & Multimedia Design

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Web & Multimedia Design that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Web & Multimedia Design faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

WEB 200 Web Design Portfolio Review

3 Credits. 2 Lecture Hours. 3 Lab Hours.

An assessment of skills required to enter upper-level courses in the Web & Multimedia Design program, including a technical skills exam and presenting a portfolio to a panel of evaluators. Students receive grades of Satisfactory or Unsatisfactory, and must pass the course to be eligible for cooperative education assignments. Those who do not pass may make one additional attempt.

Prerequisites: Web Multimedia Design Program Chair consent

WEB 220 Animated and Interactive Web Content 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on professional techniques for using Adobe Flash. Topics include: animating, creating and manipulating images; and creating interactive websites and menus.

Prerequisites: WEB 111 (minimum grade C)

WEB 235 Responsive Web Design

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on designing websites using a responsive web design approach to provide optimal viewing experiences across a range of devices including mobile phones, tablets, laptop and desktop computers. Topics include: fluid proportion-based grids, flexible images, and CSS3 media queries.

Prerequisites: WEB 112

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WEB 240 Web Development: Advanced Topics 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on current concepts and techniques used in web design. Topics include: content management systems, and mobile applications.

Prerequisites: WEB 112 (minimum grade C)

WEB 285 Web & Multimedia Design Independent Final Project 3 Credits. 2 Lecture Hours. 3 Lab Hours.

Qualified students work individually or with an approved team from concept to completion on a web and multimedia design project, and present the results to reviewers. Topic and outline must be presented to a jury of instructors, and approved prior to course registration. Students who do not successfully complete the course may make one additional attempt.

Prerequisites: Web Design Program Chair consent, and minimum 3.0 GPA

Instructor Consent Required

WEB 290 Web & Multimedia Design Capstone 3 Credits. 2 Lecture Hours. 3 Lab Hours.

Qualified students work in structured teams to develop web and multimedia deliverables for an external client, and present the results to reviewers. Activities include audience, client, and market analysis; and all phases of production of materials. Students who do not successfully complete the course may make one additional attempt. Prerequisites: Web Multimedia Design Program Chair consent, and minimum 2.5 GPA

Instructor Consent Required

WEB 291 Full-Time Cooperative Education 1: Web & Multimedia Design

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

WEB 292 Full-Time Cooperative Education 2: Web & Multimedia Design

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WEB 291

WEB 293 Full-Time Cooperative Education 3: Web & Multimedia Design

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WEB 292

WEB 294 Internship 1: Web Design

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: MID 190, WEB 200

WEB 295 Internship 2: Web Design

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WEB 294

WEB 298 Second Year Special Topics in Web & Multimedia Design

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Web & Multimedia Design, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F. Prerequisites: Instructor Approval

WEB 299 Second Year Independent Project in Web & Multimedia Design

1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Web & Multimedia Design that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Web & Multimedia Design faculty. Grades issued are Satisfactory or Unsatisfactory. Prerequisites: Instructor Approval

WLD

Courses

WLD 100 Fundamentals of Welding

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on fundamental principles of welding and joining processes. Topics include: oxy-acetylene welding and cutting techniques, plasma cutting, track cutting, and welding safety.

Prerequisites: None

WLD 105 Print Reading and Weld Design

3 Credits, 2 Lecture Hours, 2 Lab Hours,

A course on interpreting various types of prints used in the welding industry. Topics include: print reading, measurements, types of welds and joints, welding symbols, technical math, and metric conversions. Prerequisites: AFM 092 or appropriate placement test score

WLD 111 Shielded Metal Arc Welding 1 4 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on techniques and operations associated with Shielded Metal Arc Welding (SMAW). Topics include: SMAW theory and operating principles, all-position welding of groove welds, and fillet welding using electrodes E6010, E6013, and E7018.

Prerequisites: WLD 100

WLD 112 Shielded Metal Arc Welding 2 4 Credits. 2 Lecture Hours. 6 Lab Hours.

A continuation of WLD 111 covering techniques and operations associated with Shielded Metal Arc Welding (SMAW). Topics include: all-positions open V-groove welds on plate, and fillet welds.

Prerequisites: WLD 111

WLD 115 Gas Metal Arc Welding and Flux Cored Arc Welding 4 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on welding techniques associated with Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW). Topics include: theory, operating principles, equipment, and accessories; GMAW spray transfer techniques; and FCAW-G/GM (dual shielded) and FCAW-S (self-shielded) operations.

Prerequisites: WLD 100

WLD 191 Part-Time Cooperative Education 1: Welding 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 115

WLD 192 Part-Time Cooperative Education 2: Welding 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 191

WLD 193 Part-Time Cooperative Education 3: Welding 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 192

WLD 194 Part-Time Cooperative Education 4: Welding 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth parttime field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 193

WLD 195 Part-Time Cooperative Education 5: Welding 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 194

WLD 196 Part-Time Cooperative Education 6: Welding 1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth parttime field learning experience related to their degree. Students are
expected to register for academic courses during the same semester.
Students must follow cooperative education policies and procedures to
earn credit. Grades issued are Satisfactory or Unsatisfactory.
Prerequisites: WLD 195

WLD 198 First Year Special Topics in Welding 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Welding, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

WLD 199 First Year Independent Project in Welding 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Welding that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Welding faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

WLD 210 Gas Tungsten Arc Welding 4 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on techniques and operations associated with Gas Tungsten Arc Welding (GTAW). Topics include: GTAW theory, machines and set up, GTAW welding on non-ferrous and ferrous materials, and GTAW all-positions welding.

Prerequisites: WLD 100

WLD 220 Metal Fabrication

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on metal fabrication techniques used in industry. Topics include: thermal cutting; oxy-fuel gas cutting; plasma arc cutting; basic metal fabrication, layout, assembly, and fit-up; and heat distortion effects.

Prerequisites: WLD 105 and WLD 115

WLD 231 Pipe Welding 1

4 Credits. 2 Lecture Hours. 6 Lab Hours.

A course on basic techniques associated with pipe welding operations. Topics include: pipe welding theory; pipe welding positions, layout, and preparation; and welding in the 2G and 5G positions with electrodes

E6010 and E7018. Prerequisites: WLD 111

WLD 232 Pipe Welding 2

4 Credits. 2 Lecture Hours. 6 Lab Hours.

A continuation of WLD 231 covering techniques associated with pipe welding operations. Topics include: pipe welding theory and nomenclature; safety; advanced pipe welding positions, layout, and preparation; and welding in the 5G and 6G positions using shielded metal arc welding (SMAW) and gas tungsten arc welding (GTAW) processes.

Prerequisites: WLD 231

WLD 250 Welding Inspection and Codes 3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on welding techniques as applied to the American Welding Society Structural Steel Code D1.1. Topics include: weld discontinuities, visual examination, intermediate layers, completed welds, and required documentation. Students perform welder qualification tests and practice inspecting weld defects.

Prerequisites: WLD 111

WLD 260 Weldability of Metals

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on properties of metals that affect weldability. Topics include: carbon steels, low alloy steels, tool steels, and stainless steels; cast iron and non-ferrous metals; processes including pre-heating, post-heating, annealing, normalizing, and hardening; repair welding techniques; and Rockwell hardness testing.

Prerequisites: WLD 100

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WLD 291 Full-Time Cooperative Education 1: Welding 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 100

WLD 292 Full-Time Cooperative Education 2: Welding 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 291

WLD 293 Full-Time Cooperative Education 3: Welding 2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third fulltime field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 292

WLD 294 Internship 1: Welding

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 100

WLD 295 Internship 2: Welding

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: WLD 294

WLD 298 Second Year Special Topics in Welding 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A course on selected topics related to Welding, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Vary by section

WLD 299 Second Year Independent Project in Welding 1-9 Credits. 0 Lecture Hour. 0 Lab Hour.

A project related to Welding that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Welding faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Vary by section

Workforce Development Center

In collaboration with the academic divisions of the College, the Workforce Development Center at Cincinnati State offers several programs and courses that allow students to earn college credit while also gaining technical career skills.

In addition to the credit-bearing programs and courses described in this Catalog, the Workforce Development Center offers a wide range of specialized workforce education and training programs that meet the needs of corporations, government agencies, and not-for-profit agencies.

The Workforce Development Center offers these college-credit certificates:

- Disaster Response Management Certificate (HAZC)
- Industrial Controls and Instrumentation Certificate (ICIC)
- Industrial Electrical Maintenance Certificate (IEMC)
- Machine Maintenance Certificate (MMCC)
- Manufacturing Machine Operation Certificate, Level 1 (MMOC1)
- Manufacturing Machine Operation Certificate, Level 2 (MMOC2)
- Programmable Logic Controllers Certificate (PLCC)

For more information about these certificates and many other short-term training programs provided by the Workforce Development Center, call (513) 569-1643 or toll-free (888) 569-1709, or visit the Workforce Development Center (https://www.cincinnatistate.edu/academics/workforce-development-center) section of the College website.

Disaster Response Management Certificate (HAZC)

Disaster Response Management Certificate (HAZC)

This training program is designed to meet the needs of emergency services personnel (fire, law enforcement, and emergency management) and private/public sector managers responsible for all types of emergency planning and response operations.

The courses are designed to meet the National Incident Management Systems (NIMS) standard for planning and response to an All–Hazards Emergency.

For more information call the Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709.

Disaster Response Management Certificate (HAZC)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---------------------------|-----|--------|-------|
| TBE 101 | Introduction to Incident | 1 | 0 | 1 |
| | Management Operations | | | |
| THZ 110 | Basic Hazardous Materials | 1 | 0 | 1 |
| | Chemistry | | | |

| THZ 130 | Radiological and Biological Emergency Preparedness Planning | 2 | 0 | 2 |
|----------------|---|----|---|------|
| THZ 140 | Introduction to WMD Terrorism | 2 | 0 | 2 |
| Semester 2 | | | | |
| THZ 120 | Disaster Preparedness and Business Continuity Planning | 2 | 0 | 2 |
| THZ 141 | Consequences of Terrorism | 2 | 0 | 2 |
| THZ 150 | Disaster Modeling | 2 | 1 | 2.5 |
| THZ 160 | Crisis Media Relations | 1 | 0 | 1 |
| Total Credits: | | 13 | 1 | 13.5 |

Faculty

For more information

Contact Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709

Industrial Controls and Instrumentation Certificate (ICIC)

Industrial Controls and Instrumentation Certificate (ICIC)

This hands-on training program is designed for the maintenance person who will install, calibrate, and troubleshoot industrial controls and instruments.

Students who successfully complete the certificate program are prepared to take the International Society of Automation Certified Controls Systems Technician exam.

For more information call the Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709.

Industrial Controls and Instrumentation Certificate (ICIC)

| Semester 1 | Semester 1 | | Lab C | redits |
|---------------|--|---|-------|--------|
| TPI 110 | Process Control and Instrumentation 1: Pressure Control | 2 | 1 | 2.5 |
| Semester 2 | | | | |
| TPI 120 | Process Control and Instrumentation 2: Temperature Control | 2 | 1 | 2.5 |
| Semester 3 | | | | |
| TPI 130 | Process Control and Instrumentation 3: Level and Flow | 2 | 1 | 2.5 |
| Semester 4 | | | | |
| TPI 140 | Process Control and Instrumentation 4: Final Control | 2 | 1 | 2.5 |
| Total Credits | • | 8 | 4 | 10 |

Faculty

For more information

Contact Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709

Industrial Electrical Maintenance Certificate (IEMC)

Industrial Electrical Maintenance Certificate (IEMC)

This training program is designed to provide the knowledge and handson experience necessary for an entry-level electrical maintenance technical technician in industry.

For more information call the Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709.

Industrial Electrical Maintenance Certificate (IEMC)

| MMC 105 | Shop Math | 1 |
|---------------|---|-----|
| TEM 120 | Industrial Electricity for AC and DC Circuits | 2.5 |
| TEM 140 | Electrical Ladder Diagrams and Print Reading | 1 |
| TEM 150 | Industrial Power Systems | 1 |
| TEM 160 | Motors, Motor Controls, and Drives | 2.5 |
| TEM 170 | Sensors for Industrial Control Systems | 1 |
| TEM 180 | Programmable Logic Controllers 1 | 2.5 |
| TEM 190 | Troubleshooting Industrial Electrical Equipment | 2.5 |
| Total Credits | | 14 |

Faculty

For more information

Contact Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709

Machine Maintenance Certificate (MMC)

Machine Maintenance Certificate (MMC)

This training program is designed to provide the knowledge and handson experience necessary for an entry-level mechanical maintenance technician in industry.

For more information call the Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709.

Machine Maintenance Certificate (MMCC)

| MMC 105 | Shop Math | 1 |
|---------|---|-----|
| MMC 110 | MSSC Certified Production Technician Training | 6 |
| MMC 120 | Pneumatic Systems 1 | 2.5 |
| MMC 130 | Hydraulic Systems 1 | 2.5 |
| MMC 140 | Mechanical Drive Systems | 2.5 |

| MMC 150 | Bearings, Seals, and Lubrication | 1.5 |
|---------------|----------------------------------|-----|
| Total Credits | | 16 |

Faculty

For more information

Contact Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709

Manufacturing Machine Operation Certificates, Levels 1 and 2 (MMOC1, MMOC2)

Manufacturing Machine Operation Level 1 Certificate (MMOC1)

The Manufacturing Machine Operation Level 1 Certificate provides foundation skills needed for entry level employment as a computer numerical control (CNC) machine operator in a manufacturing facility. The certificate also prepares students to take certification exams offered by the National Institute for Metalworking Skills (NIMS).

Students develop skills including manufacturing machine safety, measurement and blueprint reading, materials and product inspection, and statistical process control. Additionally, students perform machining operations such as drilling, tapping, boring, turning, and conventional milling and lathe work using various manual and CNC machine tools.

Manufacturing Machine Operation Level 2 Certificate (MMOC2)

The Manufacturing Machine Operation Level 2 Certificate provides advanced skills training in programming of computerized numerical control (CNC) equipment, using simulators and live operation of a CNC Machining Center and CNC Lathe. This certificate is designed for machine operators, machinists, programmers, engineers, and supervisors.

Students who complete the Level 2 certificate gain understanding of how to use CNC programs to develop parts in compliance with industry plans, specifications, and standards. Additionally, students inspect and evaluate parts and materials to meet design specifications. The certificate also prepares students to take certification exams offered by the National Institute for Metalworking Skills (NIMS).

For more information call the Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709.

Manufacturing Machine Operation Level 1 Certificate (MMOC1)

| Semester 1 | | Lec | Lab Cr | edits |
|------------|---------------------------|-----|--------|-------|
| MMC 105 | Shop Math | 1 | 0 | 1 |
| MMO 111 | Mechanical Plan Reading 1 | 2 | 0 | 2 |
| MMO 120 | Mechanical Machining | 0 | 6 | 3 |
| MMO 125 | Introduction to CNC | 1 | 2 | 2 |

| XXX XXX | 2 | 0 | 2 |
|----------------|---|---|----|
| Technical | | | |
| Elective | | | |
| Total Credits: | 6 | 8 | 10 |

Technical Elective (minimum 2 credits required)

| MMO 110 | OSHA General Industry Safety | 2 |
|-----------|--|---|
| & MMO 130 | and Statistical Process Control Fundamentals * | |
| MMC 110 | MSSC Certified Production Technician Training | 6 |

^{*} Must complete both courses to earn credit for Technical Elective.

Manufacturing Machine Operation Level 2 Certificate (MMOC2)

| Semester 1 | | Lec | Lab Cr | edits |
|---------------|---|-----|--------|-------|
| MMO 112 | Mechanical Plan Reading 2 | 2 | 0 | 2 |
| MMO 135 | CNC Programming Fundamentals | 2 | 2 | 3 |
| MMO 136 | Computer-Aided Drafting (CAD) for Manufacturing | 0 | 2 | 1 |
| MMO 137 | Computer-Aided Manufacturing (CAM) | 0 | 2 | 1 |
| MMO 140 | CNC Tooling and Maintenance | 2 | 0 | 2 |
| Total Credits | : | 6 | 6 | 9 |

Faculty

For more information

Contact Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709

Programmable Logic Controllers Certificate (PLCC)

Programmable Logic Controllers Certificate (PLCC)

This hands-on training program is designed for the maintenance person who will install, program, maintain, and troubleshoot Programmable Logic Controllers (PLCs).

For more information call the Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709.

Programmable Logic Controllers Certificate (PLCC)

| Semester 1 | | Lec | ec Lab Credits | |
|----------------|---|-----|----------------|-----|
| TEM 140 | Electrical Ladder Diagrams and Print Reading | 1 | 0 | 1 |
| TEM 180 | Programmable Logic Controllers 1 | 2 | 1 | 2.5 |
| Semester 2 | | | | |
| TEM 185 | Programmable Logic Controllers 2 | 2 | 1 | 2.5 |
| Total Credits: | | 5 | 2 | 6 |

Faculty

For more information

Contact Workforce Development Center at (513) 569-1643 or toll-free (888) 569-1709

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