Applied Technology Specialist (ATSP)

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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.

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Semester 1		**Lec**	**Lab**	**Credits**
CIT 150	Applied Technology Studies: Advanced Standing (**T**)	1-27	0	27
ENG 101	English Composition 1 (**G**)	3	0	3
FYE XXX	First Year Experience Elective (**B**)	1	0	1
MAT XXX	Mathematics Elective (**G**)	2	2	3
XXX XXX	Humanities Elective (**G**)	3	0	3
XXX XXX	Business Elective 1 (**B**)	3	0	3
XXX XXX	Computer Skills Elective (**B**)	2	2	2
Semester 2				
COMM 110	Public Speaking (**B**)	3	0	3
XXX XXX	Business Elective 2 (**B**)	2	2	3
XXX XXX	Social Science Elective (**G**)	3	0	3
XXX XXX	Engineering Technology Elective 1 (**B**)	2	2	3
XXX XXX	Engineering Technology Elective 2 (**T**)	2	2	3
ENG 10X	English Composition Elective (**G**)	3	0	3
Total Credits:		30-56	10	60

Electives

First Year Experience Elective		
FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3
Mathematics Elective		
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 Elective		3
Any ART, CULT, FRN, LIT, MUS, PHI, REL, SPN, THE		
COMM 130	Introduction to Film Studies	3
Business Electives		
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
Social Sciences Elective		3
Any CRJ, ECO, GEO, HST, LBR, POL, PSY, SOC		
Engineering Technology Electives [1]		6
Any AMT, BMT, CET, EET, EMET, CMT, CSA, EVT, EVS, IT, MET, NETC, PSET, SET		
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

[1] Program Chair consent required

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

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- 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

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