

# 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.cincinnati-state.edu/academics/admission>) section of the College website.

## Turfgrass Management (TURF)

Semester 1		Lec	Lab	Credits
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 125	Turfgrass Management ( B )	2	2	3
LH 130	Woody Plant Materials ( T )	1	5	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 151	Landscape Design 1 ( T )	2	3	3
LH 110	Horticulture Science ( G )	2	3	3
ENG 10X	English Composition Elective ( G )	3	0	3
XXX XXX	Computer Elective ( T )	2	2	3
MAT 1XX	Mathematics Elective ( G )	3	0	3
Semester 3				
LH 135	Herbaceous Plant Materials ( T )	2	3	3
LH 165	Landscape Construction ( T )	2	3	3

LH X9X	Cooperative Education Elective 1: Landscape Horticulture ( T )	1	40	2
Semester 4				
ACC 101	Financial Accounting ( B )	2	2	3
LAW 101	Business Law ( B )	3	0	3
LH 160	Irrigation Design, Installation, and Management ( T )	2	3	3
XXX XXX	Management/Marketing Elective ( B )	3	0	3
Semester 5				
LH 210	Turfgrass Pests and Controls ( T )	2	2	3
LH 240	Landscape Management ( T )	2	3	3
LH 255	Golf Course and Athletic Field Management ( T )	2	3	3
XXX XXX	Arts/Humanities Elective or Social/Behavioral Science Elective ( G )	3	0	3
Semester 6				
LH X9X	Cooperative Education Elective 2: Landscape Horticulture ( T )	1	40	2
Total Credits:		50	120	67

## Electives

### First Year Experience Elective

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

### Computer Elective

LH 155	Computer-Aided Landscape Design	3
IM 111	Computer Applications 1	3
IM 112	Computer Applications 2	3
IM 120	Electronic Spreadsheets: Microsoft Excel	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

### Management/Marketing 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

**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

**Arts/Humanities Elective or Social/Behavioral Science Elective**

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

or, any Transfer Module course from ECO, GEO, HST, LBR, POL, PSY, SOC, or SPN 101

**Cooperative Education 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
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  
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**Advisor**

Professor Heather Augustine, MS, LEED Green Associate  
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**Co-op Coordinator**

Brian Hooten, MAOL  
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**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 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 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 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 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 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 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 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 195

**LH 198 First 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 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)

**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 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: 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 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: 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

**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 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 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 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 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 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 193

**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 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 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 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 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 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: 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 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: 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