

Turfgrass Management (TURF)

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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.

Turfgrass Management (TUR)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Semester 1		Lec	Lab	Credits
ENG 101	English Composition 1	3	0	3
LH 120	Soil Science and Plant Nutrition	2	2	3
LH 125	Turfgrass Management	2	2	3
LH 130	Woody Plant Materials	1	5	3
LH 140	Landscape Operations	2	3	3
LH 105	Horticulture Occupations	1	1	1
Semester 2				
ACC 101	Financial Accounting	2	2	3
LH 110	Horticulture Science	2	3	3
LH 151	Landscape Design 1	2	3	3
ENG 10X English Composition Elective				3
XXX XXX Computer Elective				3
BUS 190	Professional Practices	2	0	2
Semester 3				
LH 165	Landscape Construction	2	3	3
LH 291	Full-Time Cooperative Education 1: Landscape Horticulture	1	40	2
LH 135	Herbaceous Plant Materials	2	3	3
Semester 4				
ECO 105	Principles of Microeconomics	3	0	3
LH 160	Irrigation Design, Installation, and Management	2	3	3
MKT 1XX Marketing Elective				3
LAW 101	Business Law	3	0	3
COMM 110	Public Speaking	3	0	3
Semester 5				
MGT 1XX Management Elective				2
LH 240	Landscape Management	2	3	3
LH XXX Turfgrass Management Elective				3
XXX XXX Arts/Humanities Elective				3
LH 210	Turfgrass Pests and Controls	2	2	3
Semester 6				

LH 292	Full-Time Cooperative Education 2: Landscape Horticulture	1	40	2
Total Credits:		40	115	72

Electives

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 105	English Composition 2: Business Communication	3

Marketing Elective

MKT 101	Principles of Marketing	3
MKT 105	Marketing and Customer Relations	3
MKT 110	Sales and Customer Relations	3
MKT 130	Professional Selling	3
MKT 140	Entrepreneurial Marketing	3

Turfgrass Management Elective

LH 255	Golf Course Management	3
LH 260	Athletic Field Management	3

Management Elective:

MGT 100	Introduction to Management	2
MGT 101	Principles of Management	3
MGT 105	Human Resource Management	3
MGT 120	Entrepreneurship	3
MGT 130	Project Management	3

Arts/Humanities Elective

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

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. 2 Lab Hours.

A course on the 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 090 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

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

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

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

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, LH 130, and LH 135

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

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

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, plant production, and managing environmental conditions vital to plant growth. Students must attend field trips.

Prerequisites: LH 110 and LH 135

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, LH 120, and LH 151

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: AFM 095 or appropriate placement test score, LH 110, LH 120, and LH 130

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, LH 135, and LH 151

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, LH 140, and LH 151

LH 255 Golf Course Management**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on development, management, and maintenance of golf courses. Topics include: layout and construction, course management systems, budgeting, record-keeping, and golf-specific turf care.

Prerequisites: LH 125 and LH 151

LH 260 Athletic Field Management**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

A course on athletic field management for school, municipal, and professional sports operations. Topics include: turfgrass options, practices for enhancing turf growth and playability, field setup, and field renovation. Students must attend field trips.

Prerequisites: LH 125 and LH 151

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: AFM 095 or appropriate placement test score and LH 151

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, LH 155, LH 230, and LH 245

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

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 100 Introduction to Management

2 Credits. 2 Lecture Hours. 0 Lab Hour.

A course for non-management majors on concepts and techniques of supervision. Topics include: planning, organizing, influencing, and controlling in domestic and international businesses.

Prerequisites: None

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

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 110 Employee Compensation and Benefits

3 Credits. 3 Lecture Hours. 0 Lab Hour.

A course on concepts of compensation and benefits programs. Topics include: the labor market, pay structures, collective bargaining, health care plan administration, cost control techniques, retirement and savings plans, disability insurance, and workers' compensation.

Prerequisites: MGT 105

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: None

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 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 145 Training Development and Facilitation**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A course on concepts and techniques for successful implementation of training and information sessions in a business environment. Topics include: needs assessment, transfer of training, learning environment design, training methods, and evaluation of training programs.

Prerequisites: MGT 105

MGT 160 Small Business Funding**3 Credits. 3 Lecture Hours. 0 Lab Hour.**

A course on funding issues confronting start-up ventures and entrepreneurs. Topics include: tools, concepts, and approaches to financial operations of small businesses; determining financial need; placing value on a venture; locating funding sources; and preparing funding requests.

Prerequisites: ACC 101 and MGT 120

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

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

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