

**BUSINESS MANAGEMENT
CONCENTRATION**

The Business Management Concentration is fundamental to those interested in starting their own companies. Students receive a **minor in either Business Administration or Agricultural Economics and Business** allowing easier access to management positions as well as graduate programs such as the Masters of Business Administration (MBA) should they want to continue their education in the future.

Hours Credit

Freshman

Botany 110-120	8
Chemistry 100-110 or 120-130	8
English 101 - 102	6
Mathematics 123-125	6
Plant Sciences 110 or 235	3
¹ Arts and Humanities Elective	3

Sophomore

Select 2 from Plant Sciences 220, 230, 231, or 280	6
Agriculture and Natural Resources 290	3
Accounting 201- 202	5
Economics 201	4
Environmental and Soil Sciences 210	4
Speech Communication 210 or 240	3
Select Statistics 201 for Business Minor or Agricultural Economics 212 for Agricultural Economics Minor	3
¹ Cultures and Civilizations Elective	3

Junior

Select 3 from Plant Sciences 326, 330, 334, 340, 350, 360, 370, 380, 390, or 391	9
Plant Sciences 492	3
Select Business Administration 201 and Management 300 for Business Minor or Agricultural Economics 342 and 350 for Agricultural Economics Minor	6-7
Select 2 from Technical Electives	6
¹ Cultures and Civilizations Elective	3
¹ Arts and Humanities Elective	3

Senior

Select 3 from Plant Sciences 410, 421, 427, 429, 430, 431, 433, 434, 435, 436, 440, 446, 450, 451, 453, 460, 471, 480, 485, or 493	7-10
Plant Sciences 490	1
Select Finance 301 and Marketing 300 for Business Minor or Agricultural Economics 412 and an Agricultural Economics Elective for Agricultural Economics Minor	6
¹ Social Science Elective	3
Unrestricted Electives	8-12

Total: 124

¹Lists of appropriate electives are available and should be selected in conference with academic advisor. One of the arts and humanities or cultures and civilizations electives must be a writing emphasis course.

**HORTICULTURE AND AGRONOMY
CONCENTRATION**

The Horticulture and Agronomy Concentration is designed for the student desiring to pursue professions that include graduate studies, research and commercial production of agronomic and horticultural crops. Careful selection of departmental courses and other electives in consultation with your academic advisor will prepare graduates for the career of their choice. The concentration consists of two tracks of study: (1) Emphasis in agronomy and (2) Emphasis in horticulture.

Hours Credit

Freshman

Botany 110-120	8
Chemistry 100-110 or 120-130	8
English 101 - 102	6
Mathematics 123-125 or 151-152	6
Select Plant Sciences 235 for Agronomy Track or Plant Sciences 110 for Horticulture Track	3

Sophomore

Directed Electives	6
Agriculture and Natural Resources 290	3
¹ Arts and Humanities Elective	3
¹ Social Science Elective	3
Environmental and Soil Sciences 210	4
Speech Communication 210 or 240	3
Economics 201	4
¹ Cultures and Civilizations Elective	3

Junior

Plant Sciences 330	3
Select Plant Sciences 334 for Agronomy Track or select Plant Sciences 370 for Horticulture Track	3
Select 2 from Plant Sciences 340, 370, 390 or 391 for Agronomy Track or select 2 from Plant Sciences 334, 340, 350, 360, 390 or 391 for Horticulture Track	6
Plant Sciences 492	3
Environmental and Soil Sciences 334	3
Directed Elective	3
Select 1 from Entomology and Plant Pathology 313, 321, or 410	3
Technical Elective	3-4
¹ Cultures and Civilizations Elective	3

Senior

Plant Sciences 471 and 490	4
Botany 321	4
Chemistry 350	4
Technical Elective	3-4
Directed Electives	12-13
¹ Arts and Humanities Elective	3
Unrestricted Electives	1-4

Total: 124

¹Lists of appropriate electives are available and should be selected in conference with academic advisor. One of the arts and humanities or cultures and civilizations electives must be a writing emphasis course.

**LANDSCAPE DESIGN
CONCENTRATION**

Landscape designers create aesthetic concepts and practical plans for improved outdoor living. Students study fundamental and advanced landscape design, landscape design graphics, computer aided landscape design, surveying, art, socio-economic impact of plants, field botany, professional practices, basic woody plant identification, landscape construction and maintenance methods. The development of comprehensive design projects helps students prepare for careers in landscape design or advanced studies in landscape architecture. Graduates in design have access to a large segment of the ornamental horticulture commodity areas of employment.

Hours Credit

Freshman

Botany 110-120	8
Chemistry 100 or 120	4
English 101 - 102	6
Mathematics 123-125 or 151-152	6
Plant Sciences 110	3
¹ Social Science Elective	3

Sophomore

Plant Sciences 220, 280	6
Agriculture and Natural Resources 290	3
Natural Science Elective	4
Environmental/Technical Elective	3
Environmental and Soil Sciences 210	4
Speech Communication 210 or 240	3
¹ Arts and Humanities Elective	3
Unrestricted Electives	6

Junior

Plant Sciences 350 and 380	6
Select 2 from Plants Sciences 230, 231, 330, 334, 340 or 370	6
Select 1 from Plant Sciences 390 or 391	3
Environmental/Technical Elective	3
¹ Cultures and Civilizations Elective	3
¹ Social Science Elective	3
Unrestricted Elective	8

Senior

Plant Sciences 460, 480, and 485	8
Select 2 from Plant Sciences 410, 427, 430, 434, 440, 446, 450, or 493	6
Plant Sciences 490 and 492	4
Select 1 from Botany 330 or Plant Sciences 421	3
Environmental/Technical Elective	3
¹ Cultures and Civilizations Elective	3
¹ Arts and Humanities Elective	3

Total: 124

¹Lists of appropriate electives are available and should be selected in conference with academic advisor. One of the arts and humanities or cultures and civilizations electives must be a writing emphasis course.

**PUBLIC HORTICULTURE
CONCENTRATION**

The Public Horticulture Concentration is intended for students interested in professional careers which promote horticulture and emphasize people and their education and enjoyment of plants. Such careers include director of a botanical garden or park; city or urban horticulturist; extension agent, teacher, educational director, or program coordinator; professional garden writer/editor or publication manager; horticulture therapist; public garden curator; and plant collections manager. Directed technical electives allow the student to concentrate in an area of their interest while encouraging the development of good people skills. Student are required internship training in the area of their interest.

Hours Credit

Freshman

Botany 110-120	8
Chemistry 100 or 120	4
English 101 - 102	6
Mathematics 123-125 or 151-152	6
Plant Sciences 110	3
Natural Science Elective	4

Sophomore

Select 2 from Plant Sciences 220, 230, 231, or 280 ...	6
Agriculture and Natural Resources 290	3
Select 1 from Educational Psychology 210; Public Relations 270; Recreational and Leisure Studies 201; Forestry, Wildlife and Fisheries 211, or 250	3
¹ Social Science Elective	3
Environmental and Soil Sciences 210	4
Speech Communication 210 or 240	3
¹ Arts and Humanities Electives	6
¹ Cultures and Civilizations Elective	3

Junior

Select 4 from Plant Sciences 330, 334, 340, 350, 360, 370, 380, 390, or 391	12
Plant Sciences 326	3
Select 1 from Philosophy 342; Agric. and Extension Educ. 346; or Journalism 310	3
Select 2 from Botany 309, 330; Entomology and Plant Pathology 313, 321, or 410	6
Select 2 from Technical Electives	6

Senior

Select 4 from Plant Sciences 410, 421, 427, 429, 430, 431, 433, 434, 436, 437, 440, 446, 450, 451, 460, 480, 485, 493 or 494	8-12
Plant Sciences 490 and 492	4
¹ Social Science Elective	3
¹ Cultures and Civilizations Elective	3
Select 2 from Technical Electives	6
Unrestricted Electives	3-9

Total: 124

¹Lists of appropriate electives are available and should be selected in conference with academic advisor. One of the arts and humanities or cultures and civilizations electives must be a writing emphasis course.

**TURFGRASS MANAGEMENT
CONCENTRATION**

The Turfgrass Management Concentration is designed for the student desiring to pursue professions that include growing and managing turfgrasses used for golf courses, parks, athletic fields, sports complexes, and residential and commercial lawns. Careful selection of departmental courses and other electives in consultation with your academic advisor will prepare graduates for the career of their choice.

Hours Credit

Freshman

Botany 110 -120	8
Chemistry 100 -110 or 120 -130	8
English 101 - 102	6
Mathematics 123-125 or 151-152	6
Plant Sciences 110 or 235	3
¹ Social Science Elective	3

Sophomore

Plant Sciences 220, 230, 231, or 280	3
Agriculture and Natural Resources 290	3
¹ Arts and Humanities Elective	3
¹ Social Science Elective	3
Environmental and Soil Sciences 210	4
Speech Communication 210 or 240	3
¹ Cultures and Civilizations Elective	3
Unrestricted Elective	6

Junior

Plant Sciences 334, 340, and 370	9
Select 2 from Plant Sciences 330, 350, 360, 390, or 391	6
Plant Sciences 492	3
Technical Electives	6
¹ Cultures and Civilizations Elective	3
Unrestricted Elective	3

Senior

Select 2 from Plant Sciences 410, 421, 430, 431, 433, 434, 435, 450, 451, 460, 471, or 493	4-6
Plant Sciences 440 and 490	5
Technical Electives	6
Botany 321	4
¹ Arts and Humanities Elective	3
<u>Unrestricted Elective</u>	<u>8-10</u>

Total: 124

¹Lists of appropriate electives are available and should be selected in conference with academic advisor. One of the arts and humanities or cultures and civilizations electives must be a writing emphasis course.

ADDITIONAL ELECTIVE LIST FOR PLANT SCIENCES MAJOR:

BUSINESS MANAGEMENT CONCENTRATION

Technical Electives

Biosystems Engineering Tech. 202, 212, 452, 462
Environmental and Soil Sciences 324, 334, 462
Entomology and Plant Pathology 313, 321, 410

HORTICULTURE AND AGRONOMY CONCENTRATION

Technical Electives: Agronomy Track

Agricultural Economics Elective (3)
Biosystems Engineering Tech. 212, 452, 462
Botany 310, 330
Environmental and Soil Sciences 324, 355, 434, 442, 444
Forestry, Wildlife, and Fisheries 250

Technical Electives: Horticulture Track

Agricultural Economics Elective (3)
Biosystems Engineering Tech. 212, 452, 462
Botany 310, 412, 431, 451
Forestry, Wildlife, and Fisheries 250

Directed Electives for Sophomore Year:

Agronomy Track:

Microbiology 210 and Biology 240

Horticulture Track:

Select 1 from Plant Sciences 220, 230, 231, or 280
and select 1 from Microbiology 210 or
Biology 240

Directed Electives for Junior Year:

Agronomy Track:

Environmental and Soil Sciences 462

Horticulture Track:

Botany 330

Directed Electives for Senior Year:

Agronomy Track:

Plant Sciences 431, 434, 435, and 453

Horticulture Track:

Select 4 from Plant Sciences 410, 430, 431, 433, 434, 440, 451 or 453

Environmental/Technical Electives

Architecture 111, 180, 211, 232, 421
Art 101, 103, 191, 295
Art Drawing 211, 212
Biology 250
Biosystems Engineering Technology 202, 212
Botany 305, 306, 330, 431
Entomology and Plant Pathology 306, 313, 321, 410
Environmental and Soil Sciences 324, 334
Forestry, Wildlife, and Fisheries 211, 250
Geology 201, 202
Geography 310, 439
Urban and Regional Planning 401, 402

PUBLIC HORTICULTURE CONCENTRATION

Technical Electives: Accounting 415

Art 481
Botany 431
Educational Psychology 210
Forestry 423
Interior Design 200
Philosophy 342
Environmental & Soil Sciences 355, 434
Public Health 410
Public Relations 470
Recreation and Leisure Studies 410, 430
Speech 440

PUBLIC HORTICULTURE AND LANDSCAPE DESIGN AND CONSTRUCTION CONCENTRATIONS

Natural Science Electives:

Chemistry 110, 130
Geography 131
Geology 101, 103

TURFGRASS MANAGEMENT CONCENTRATION

Technical Electives:

Agricultural Economics Elective (3)
Biosystems Engineering Tech. 202, 212, 452, 462
Environmental and Soil Sciences 324, 334, 462
Entomology and Plant Pathology 313, 321, 410

LANDSCAPE DESIGN CONCENTRATION