HORTICULTURE
2010-2011

Freshman

First Semester		**Second Semester**	
BIOL 103 - General Biology I	3 hrs	HORT 102 Experience Horticulture	1 hr
BIOL 105 – General Biology Lab I	1 hr	MTHSC 102 – Intro. to Math Analysis	3 hrs
HORT 101 – Horticulture	3 hrs	ENGL103 Accelerated Composition	3 hrs
CH 101 General Chemistry *or* CH 105 Chemistry in Context I[4]	4 hrs	CH 102 General Chemistry *or* CH 106 Chemistry in Context II[4]	4 hrs
Spanish Language Requirement [2]	4 hrs	Related Science Requirement[2]	4 hrs
	15 hrs		15 hrs

Sophomore

First Semester		**Second Semester**	
MTHSC 101 – Essential Math	3 hrs	Social Science Requirement [1]	3 hrs
Plant Biology Requirement [2]	4 hrs	Arts and Humanities (Lit) requirement[1]	3 hrs
Business Requirement [2]	3 hrs	HORT 305 Plant Propagation	3 hrs
Arts & Humanities (Non-Lit) Requirement [1]	3 hrs	HORT 306 Plant Propagation Tech. Lab	1 hr
HORT 303 – Landscape Plants	3 hrs	HORT Specialization Requirement[2]	3 hrs
	16 hrs		13 hrs

Summer

HORT 271 Internship *or* HORT 471 Advanced Internship[3]	3 hrs

Junior

First Semester		**Second Semester**	
Elective	3 hrs	Related Science Requirement[2]	3 hrs
CSENV 202 - Soils	4 hrs	BIOSC 401 Plant Physiology	3 hrs
HORT Specialization Requirement [2]	3 hrs	BIOSC 402 Plant Physiology Lab	1 hr
Oral Communications Requirement [1]	3 hrs	Business Requirement [2]	3 hrs
Social Science Requirement [1]	3 hrs	HORT 409 Seminar	1 hr
	16 hrs	HORT Specialization Requirement[2]	3 hrs
			14 hrs

Senior

First Semester		**Second Semester**	
Related Science Requirement [2]	6 hrs	Elective	1 hr
Business Requirement [2]	3 hrs	HORT Specialization Requirement[2]	6 hrs
HORT Specialization Requirement[2]	6 hrs	Related Science Requirement [2]	6 hrs
	15 hrs		13 hrs

Total – 120 hrs

1. **See General Education Requirements. One humanities or one social science requirement must be a Cross-Cultural Awareness Course.**
2. **See advisor. Select from approved departmental list.**
3. **Internship must be completed in one or two semesters. Internship may be done fall or spring or summer after completing HORT 303. Prior approval is required for internships and a 2.0 is required for registration.**
4. **Students not taking the CH 105/106 sequence must satisfy the General Education Science and Technology in Society Requirement by selecting a qualifying course from the Applied Science Requirement or the Laboratory Science Requirement.**

Related Science Courses (choose at least 6 courses - 19 credits, lecture and lab must be taken)

AGM 301 Soil and Water Conservation – 2 credits
AGM 402 Drainage Irrigation and Waste Management – 3 credits (Fall)
AGRIC 440 Microclimatology – 3 credits
BIOCH 301/302 Molecular Biochemistry – 4 credits
BIOSC 320 Field Botany – 4 credits
BIOSC 406/407 Introductory Plant Taxonomy – 4 credits
BIOSC 413 Restoration Ecology – 3 credits
BIOSC 441/445 Ecology – 5 credits
BIOSC 452/453 Plant Anatomy and Morphology – 5 credits
BIOSC446/447 Plant Ecology – 5 credits
CH 201 Survey of Organic Chemistry – 4 credits
CH 223/227 Organic Chemistry & Lab – 4 credits
CSENV 405 Plant Breeding – 3 credits
CSENV 407 Introductory Weed Science – 3 credits
CSENV 452/453 Soil Fertility and Management – 3/1 credits
EN SP 200 Introduction to Environmental Science – 3 credits
EN SP 472 Environmental Planning and Control – 2 credits
ENT 300 Environmental Entomology – 3 credits
ENT 301 Insect Biology and Diversity – 4 credits
ENT 308 Apiculture – 3 credits
FOR 308 Remote Sensing and GIS in Forestry – 3 credits
FOR 315 Woodland Ecology – 3 credits
FOR 413 Integrated Forest Pest Mgt. – 4 credits
FOR 433 GPS Applications – 3 credits
FOR 434 GIS Systems for Landscape Planning – 3 credits
GEN 300/301 Fundamental Genetics – 4 credits
GEOL 101/103 Physical Geology – 4 credits
GEOL 112/114 Earth Resources – 4 credits
GEOL 300 Environmental Geology – 3 credits
IPM 401 Principles of Integrated Pest Mgmt. – 3 credits
MICRO 305 General Microbiology – 4 credits
PHYS 122/124 – Physics with Calculus I – 4 credits
PHYS 200 Introductory Physics – 4 credits
PHYS 207/209 General Physics I – 4 credits
PLPA 310 Plant Diseases and People – 3 credits
PLPA 406/408 Diseases and Insects of Turfgrass – 2/1 credits (Maymester)
PLPH 320 Plant Medicine and Magic – 3 credits
WFB 313 Conservation Biology – 3 credits (every semester)
WFB 412 Wildlife Management – 3 credits
WFB 462 Wetland Wildlife Biology – 3 credits

Business, Communication and Leadership Courses (choose at least 3 courses – 9 credits)

ACCT 201 Financial Accounting Concepts – 3 credits
ACCT 202 Managerial Accounting Concepts – 3 credits
All AP EC courses 300 and higher
All COMM courses 300 and higher
All COMM, ECON, FIN, LAW, MGT, MKT courses 300 and higher
ELE 301, 401, 499 Executive Leadership and Entrepreneurship I, II, III

Horticulture Specialization (choose at least 6 courses – 18 credits)

FOR 450 Woody Plant Stress Physiology – 3 credits
FOR 480 Selected Topics in Urban Forestry – 1 – 3 credits
HORT 202 Selected Topics – 3 credits
HORT 208 Landscape Appreciation – 3 credits
HORT 212 Introduction to Turfgrass Culture - 3 credits
HORT 213 Turfgrass Culture Laboratory – 1 credit
HORT 304 Annuals and Perennials – 3 credits
HORT 308 Landscape Design – 4 credits
HORT 310 Growing Landscape Plants – 3 credits
HORT 400 Special Topics 1-3 credits (maximum 3 credits)
HORT 406 Nursery Technology – 3 credits
HORT 408 Horticulture Discovery and Inquiry (variable credits)
HORT 412 Advanced Turfgrass Management – 3 credits
HORT 420 Applied Turfgrass Physiology – 3 credits
HORT 427 Urban Tree Care – 3 credits
HORT 433 Landscape and Turf Weed Management – 3 credits
HORT 455 Just Fruits – 3 credits
HORT 456 Vegetable Crops – 3 credits.
HORT 461 Problems in Landscape Design – 4 credits
HORT 465 Plant Molecular Biology – 3 credits

Spanish Courses (choose at least 1 course – 4 credits)

SPAN 101 Elementary Spanish – 4 credits
SPAN 102 Elementary Spanish – 4 credits
SPAN 104 Basic Spanish– 4 credits

Plant Biology Requirement – 4 credits

BIOSC 304 Biology of Plants – 3 credits
BIOSC 308 Biology of Plants Lab – 1 credit