

## HORTICULTURE 2009-2010

### Freshman

#### First Semester

BIOL 103 - General Biology I	3 hrs
BIOL 105 – General Biology Lab I	1 hr
HORT 101 – Horticulture	3 hrs
MTHSC 102 – Intro. to Math Analysis	3 hrs
Arts & Humanities (Non-Lit) Requirement <sup>1</sup>	3 hrs
Social Science Requirement <sup>1</sup>	3 hrs
	<u>16 hrs</u>

#### Second Semester

Laboratory Science Requirement <sup>2</sup>	4 hrs
HORT 102 Experience Horticulture	1 hr
MTHSC 101 – Essential Math	3 hrs
ENGL103 Accelerated Composition	3 hrs
Social Science Requirement <sup>1</sup>	3 hrs
	<u>14 hrs</u>

### Sophomore

#### First Semester

CH 105 Chemistry in Context I <sup>4</sup>	4 hrs
Plant Biology Requirement <sup>2</sup>	4 hrs
Business Requirement <sup>2</sup>	3 hrs
HORT 303 – Landscape Plants	3 hrs
	<u>14 hrs</u>

#### Second Semester

CH 106 Chemistry in Context II <sup>4</sup>	4 hrs
Arts and Humanities (Lit) requirement <sup>1</sup>	3 hrs
HORT 304 Annuals and Perennials	3 hrs
HORT 305 Plant Propagation	3 hrs
HORT 306 Plant Propagation Tech. Lab	1 hr
	<u>14 hrs</u>

### Summer

HORT 271 Internship <i>or</i> HORT 471 Advanced Internship <sup>3</sup>	3 hrs
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### Junior

#### First Semester

Elective	3 hrs
CSENV 202 - Soils	4 hrs
HORT Specialization Requirement <sup>2</sup>	3 hrs
Oral Communications Requirement <sup>1</sup>	3 hrs
Spanish Language Requirement <sup>2</sup>	3 hrs
	<u>16 hrs</u>

#### Second Semester

Applied Science Requirement <sup>2</sup>	3 hrs
BIOSC 401 Plant Physiology	3 hrs
BIOSC 402 Plant Physiology Lab	1 hr
Business Requirement <sup>2</sup>	3 hrs
HORT 409 Seminar	1 hr
HORT Specialization Requirement <sup>2</sup>	3 hrs
	<u>14 hrs</u>

### Senior

#### First Semester

Applied Science Requirement <sup>2</sup>	6 hrs
Business Requirement <sup>2</sup>	3 hrs
HORT Specialization Requirement <sup>2</sup>	6 hrs
	<u>15 hrs</u>

#### Second Semester

Applied Science Requirement <sup>2</sup>	3 hrs
Elective	1 hr
HORT Specialization Requirement <sup>2</sup>	6 hrs
Laboratory Science Requirement <sup>2</sup>	4 hrs
	<u>14 hrs</u>

### Total – 120 hrs

<sup>1</sup> See General Education Requirements. One humanities or one social science requirement must be a Cross-Cultural Awareness Course.

<sup>2</sup> See advisor. Select from approved departmental list.

<sup>3</sup> 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.

<sup>4</sup> 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.

**Laboratory Science Courses (choose at least 2 courses for a minimum of 8 credits, lecture and lab must be taken)**

BIOCH 301/302 Molecular Biochemistry - 4 credits  
BIOSC 320 Field Botany – 4 credits  
BIOSC 406/407 Introductory Plant Taxonomy - 4 credits  
BIOSC 441/445 Ecology – 5 credits  
BIOSC446/447 Plant Ecology - 5 credits  
BIOSC 452/453 Plant Anatomy and Morphology –5 credits  
CH 201 Survey of Organic Chemistry- 4 credits  
CH 223/227 Organic Chemistry & Lab - 4 credits  
GEN 300/301 Fundamental Genetics - 4 credits  
GEOL 101/103 Physical Geology - 4 credits  
GEOL 112/114 Earth Resources – 4 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

**Applied Science Courses (choose at least 4 courses – 12 credits)**

AGM 301 Soil and Water Conservation -2 credits  
AGM 402 Drainage Irrigation and Waste Management– 3 credits (Fall)  
AGRIC 440 Microclimatology – 3 credits  
CSENV 405 Plant Breeding - 3 credits  
CSENV 407 Introductory Weed Science – 3 credits  
CSENV 452/453 Soil Fertility and Management - 3/1 credits  
BIOSC 413 Restoration Ecology – 3 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 315 Woodland Ecology – 3 credits  
FOR 308 Remote Sensing and GIS in Forestry – 3 credits  
FOR 433 GPS Applications – 3 credits  
FOR 434 GIS Systems for Landscape Planning - 3 credits  
GEOL 300 Environmental Geology – 3 credits  
IPM 401 Principles of Integrated Pest Mgmt. - 3 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 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 – 3 or 4 credits)**

SPAN 101 Elementary Spanish – 4 credits  
SPAN 102 Elementary Spanish – 4 credits  
SPAN 104 Basic Spanish– 4 credits  
SPAN 202 Intermediate Spanish – 3 credits

**Plant Biology Requirement – 4 credits**

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