



Department of Horticulture  
2005-2006 Catalog Year

# HORTICULTURE SCIENCE CURRICULUM CHECKSHEET

for students interested in Plant Science and Plant Science Research

**Section I - General Education University Core Requirements**

**A. English (6 hours)<sup>1</sup>**

- ENGL 1013 (English Composition)
- ENGL 1023 (English Composition II)

**B. Mathematics (3 hours)**

- MATH 1203 (College Algebra)
- MATH 2043 (Survey of Calculus)
- MATH 2053 (Finite Mathematics)

**C. General Sciences (includes University & Department Requirements)**

**1. Botany and Plant Sciences (12 hours)<sup>2</sup>**

- BIOL 1543 (Principles of Biology) and
- BIOL 1541L (Principles of Biology Lab) and
- BIOL 1613 (Plant Biology) and
- BIOL 1611L (Plant Biology Lab) and
- BIOL 4304 (Plant Physiology) and
- BIOL 4300L (Plant Physiology Lab)

**2. Chemistry (4 hours)**

- CHEM 1103 (University Chemistry I) and
- CHEM 1101L (University Chemistry I Lab) and
- CHEM 1100D (University Chemistry I Drill) and

**3. Physics and Genetics (3-4 hours)<sup>2</sup>**

- PHYS 1023 (Physics and Human Affairs) and
- PHYS 1021L (Physics & Human Affairs Lab)
- PHYS 2013 (College Physics I) and
- PHYS 2011L (College Physics I Lab)
- PHYS 2054 (University Physics I)
- PHYS 2050L (University Physics I Lab)
- PHYS 1044 (Physics for Architects I) and
- PHYS 1040L (Physics for Architects I Lab)
- BIOL 2323 (General Genetics) and
- BIOL 2321L (General Genetics Lab)
- ANSC 3123 (Principles of Genetics)

**4. Environmental Science, Ecology and Geology (3-4 hrs.)**

- ENSC 1003 (Environmental Science)
- BIOL 3863 (General Ecology) and
- BIOL 3861L (General Ecology Lab)
- GEOL 1113 (General Geology) and
- GEOL 1111L (General Geology Lab)
- GEOL 1133 (Environmental Geology) and
- GEOL 1131L (Environmental Geology Lab)

**D. Fine Arts and Humanities (6 hours)**

Choose 3 hours from 2 separate categories:<sup>2</sup>

- LARC 1003 (Landscape Architecture)
- ARCH 1003 (Architecture Lecture)
- ARHS 1003 (Art Lecture)
- ARTS 1003 (Art Studio)
- COMM 1003 (Film Lecture)
- DANC 1003 (Basic Movement and Dance)
- DRAM 2003 (Theater Lecture)
- HUMN 1003 (Introduction to the Arts and Aesthetics)
- MLIT 1003 (Music Literature)
- OR
- PHIL 2003 (Introduction to Philosophy)
- PHIL 2103 (Introduction to Ethics)
- PHIL 2203 (Logic)
- PHIL 3103 (Ethics and Professions)
- OR
- CLST 1003 (Intro to Classical Studies/Greece)
- CLST 1013 (Intro to Classical Studies/Rome)
- HUMN 2124H (Honors 20<sup>th</sup> Century Global Culture)
- HUMN 1124H (Honors Equilibrium of Culture 500 to 1600)
- WLIT 1113 (World Literature I)
- WLIT 1123 (World Literature II)
- OR
- HUMN 2003 (Intro to Gender Studies)
- Foreign Language 2003 (Spanish Recommended)

**E. U.S. History (3 hours)**

- HIST 2003 (History of American People to 1877)
- HIST 2013 (History of American People 1877- Present)
- PLSC 2003 (American National Government)

**F: Social Sciences (9 hours)<sup>3, x</sup>**

Choose 6 hours from the following area:

- AGEC 1103 (Principles of Agri. Microeconomics)
- AGEC 2103 (Principles of Agri. Macroeconomics)
- ANTH 1023 (Intro to Cultural Anthropology)
- ECON 2013 (Principles of Macroeconomics)
- ECON 2023 (Principles of Microeconomics)
- ECON 2143 (Basic Economics-Theory/Practice)
- GEOG 1123 (Human Geography)
- GEOG 2023 (Economic Geography)
- GEOG 2103 (Emerging Nations)
- GEOG 2203 (Developed Nations)
- HESC 1403 (Life Span Development)
- HESC 2413 (Family Relations)
- HIST 1113H (Honors World Civilization I)
- HIST 1123H (Honors World Civilization II)
- HIST 2003 (History American People to 1877)
- HIST 2013 (History American People 1877 to Present)
- HUMN 1114H (Honors Roots of Culture to 500 CE)
- HUMN 2114H (Honors Birth of Culture 1600-1900)
- PLSC 2003 (American National Government)
- PLSC 2013 (Introduction to Comparative Politics)
- PLSC 2203 (State and Local Government)
- PSYC 2003 (General Psychology)
- RSOC 2603 (Rural Sociology)
- SOCI 2013 (General Sociology)
- WCIV 1003 (Western Civilization I)
- WCIV 1013 (Western Civilization II)

AND

Choose 3 hours from the following area:

- ECON 2013 (Principles of Macroeconomics)
- ECON 2023 (Principles of Microeconomics)
- ECON 2143 (Basic Economic Theory/Practice)
- AGEC 1103 (Principles of Agri. Microeconomics)
- AGEC 2103 (Principles of Agri. Macro Economics)

**Section II: Department and College Requirements**

**A. Communication, Interpersonal Skills and Leadership Development**

**1. English (3 hours)**

- ENGL 2003 (Advanced Composition)<sup>1</sup>

<sup>1</sup>If exempt by virtue of performance, choose another communications elective to meet this requirement.

**2. Communications (6 hours)<sup>2</sup>**

- COMM 1313 (Fundamentals of Communication)

AND

Choose 3 hours from the following area:

- AGED 3142 (Agri. Communications) and
- AGED 3141L (Agri. Communications Lab)
- CSES 3023 (Agronomy Colloquium)
- COMM 2303 (Public Speaking)
- ENGL 3053 (Technical and Report Writing)
- JOUR 1023 (Media and Society)
- JOUR 3123 (Feature Writing)
- JOUR 3723 (Advertising Principles)
- COMM 2323 (Interpersonal Communication)
- Foreign Language 2003 (Spanish Recommended)

**3. Interpersonal Skills and Leadership Development (3 hrs)**

- AGED 3142 (Agri. Communications) and
- AGED 3141L (Agri. Communications Lab)
- COMM 2323 (Interpersonal Communication)
- COMM 2351 (Parliamentary Procedure)
- COMM 3303 (Small-Group Communication)
- COMM 3703 (Organizational Communication)

**B. Economics and Business (3 hours)**

- AGEC 2303 (Introduction to Agribusiness)
- AGEC 3303 (Food and Agricultural Marketing)
- AGEC 3403 (Farm Business Management)
- WCOB 2013 (Markets and Consumers)
- Any other AGEC or Walton College of Business Course

**C. Agricultural Science (7 hours)<sup>3</sup>**

- CSES 2203 (Soil Science) and
- CSES 2201L (Soil Science Lab) and
- CSES 2200D (Soil Science Drill)

AND

- Choose 3 hours from the following area:
- \_\_\_ CSES 2003 (Introduction to Weed Science) and
  - \_\_\_ CSES 2000L (Intro. to Weed Science Lab) or
  - \_\_\_ ENTO 3013 (Intro. to Entomology) and
  - \_\_\_ ENTO 3010L (Intro. to Entomology Lab) or
  - \_\_\_ PLPA 3004 (Principles of Plant Pathology) and
  - \_\_\_ PLPA 3000L (Principles of Plant Pathology Lab)

(2000 level or lower) transfer courses.

(Revised April 2005)

**D. Horticultural Science (14 hours)**

- \_\_\_ AFSL 1011 (Freshman Orientation)
- \_\_\_ HORT 2003 (Principles of Horticulture) and
- \_\_\_ HORT 2000L (Principles of Horticulture Lab)
- \_\_\_ HORT 4403 (Plant Propagation) and
- \_\_\_ HORT 4400L (Plant Propagation Lab)
- \_\_\_ HORT 3901 (Horticulture Career Development)
- \_\_\_ HORT 462V, 463V, 464V, 465V (Internship)
- \_\_\_ (Minimum 3 hour internship)

AND

- Choose 3 hours from the following area:
- \_\_\_ HORT 3103 (Woody Landscape Plants) and
  - \_\_\_ HORT 3100L (Woody Landscape Plant Lab) or
  - \_\_\_ HORT 3113 (Herbaceous and Indoor Plants) and
  - \_\_\_ HORT 3110L (Herbaceous and Indoor Plants Lab)

**Section III. Horticulture Science Concentration**

(Note: Students in HSCI must take both a genetics and a physics course.)

**A. Science (11-12 hours)**

- \_\_\_ CHEM 1123 (University Chemistry II) and
- \_\_\_ CHEM 1121L (University Chemistry II Lab)
- \_\_\_ CHEM 1120D (University Chemistry II Drill)
- \_\_\_ CHEM 2613 (Organic Physiological Chemistry) and
- \_\_\_ CHEM 2611L (Organic Physiological Chemistry Lab)
- \_\_\_ CHEM 2610D (Organic Physiological Chemistry Drill)

Choose 3-4 hours from the following area:

- \_\_\_ BIOL 2323 (General Genetics) and
- \_\_\_ BIOL 2321L (General Genetics Lab)
- \_\_\_ ANSC 3123 (Principles of Genetics)
- \_\_\_ PHYS 2013 (College Physics I) and
- \_\_\_ PHYS 2011L (College Physics I Lab) and
- \_\_\_ PHYS 2010D (College Physics I Drill)
- \_\_\_ PHYS 2054 (University Physics I) and
- \_\_\_ PHYS 2050L (University Physics I Lab)

**B. Math (3-4 hours)**

- \_\_\_ MATH 2043 (Survey of Calculus)
- \_\_\_ MATH 2040D (Survey of Calculus Drill)
- \_\_\_ MATH 2554 (Calculus I)

**C. Any additional approved Horticulture class (9 hours)**

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 \_\_\_\_\_

**D. Elective Courses in addition to requirements to equal 124 hours:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Students may use free electives for any courses of interest. Choose electives to insure that at least 39 hours of course work are at the 3000 level or higher. Free electives may also be used to complete the requirements for a minor.

<sup>2</sup>Satisfies University Minimum Core Requirements.

<sup>3</sup>Satisfies CAFLS Core Requirement. Students must complete a minimum of 9 hours in CAFLS outside of HORT. Students must complete COMM 1313 and 3 additional hours in a communication intensive course.

<sup>4</sup>Six hours of Social Science plus 3 hours of the required Economics and Business section satisfy University minimum core requirements for Social Sciences.

Students transferring to HORT with more than 24 credit hours of transfer credits are not required to enroll in AFSL 1011.

Students must complete a minimum of 3 and a maximum of 6 credit hours of an internship (HORT 462V, 463V, 464V, 465V) in horticulture. Students are eligible for enrollment in internship after completing a minimum of 45 credits towards the degree.

Certain Classes appear in more than one section. However, they may only be used to satisfy a single requirement.

**To graduate, at least 124 credits must be completed. At least 35 hours in the University Core, at least 30 hours in the Bumpers College of Agricultural, Food and Life Sciences and 9 hours within Bumpers College of Agricultural, Food and Life Sciences and outside of Horticulture. At least 39 credit hours must be at the 3000 level or higher. Students must achieve a minimum GPA of 2.0 with no more than 25% (31 hours) of the credits at a grade level of a D. There may be a maximum of 68 hours of lower division**