



Horticulture, Plant and Soil Sciences

College of Agriculture and School of Human Environmental Sciences

The Horticulture, Plant and Soil Sciences degree program is designed to provide students with the knowledge and skills needed for a career in the production and management of plants and soils for food, fiber, forage, oil, recreation, landscaping and the enhancement of the human environment.

Options

Students pursuing a Horticulture, Plant and Soil Sciences degree may choose from the following Options:

- Horticulture Enterprise Management
Turfgrass Science
Crops and Livestock
Crop, Soil and Horticulture Science

Graduation Requirements

Students must complete a minimum of 120 semester credit hours with at least 45 credit hours from courses at the 300 level or above. A 2.0 grade-point standing (on a 4.0 scale) is necessary and remedial courses may not be counted toward the total hours required for the degree.

Plan of Study

As a horticulture, plant and soil sciences major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of Academic Programs.

Consult your academic advisor in developing your Plan of Study.

College Required Hours

Table with 2 columns: Course Name, Hours. Includes GEN 100 Issues in Agriculture (3) and Subtotal: College Required Hours (3).

University Studies Requirements

Hours

See "University Studies Program" on pages 84-88 of the 2010-2011 UK Bulletin for the complete University Studies requirements.

The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (\*) may also be used to satisfy University Studies requirements.

Inference/Logic

Satisfied by premajor requirement

Natural Sciences

Satisfied by premajor requirement

In addition, the student must submit a proposed plan of study for the junior and senior years.

Premajor Requirements

Table with 2 columns: Course Name, Hours. Lists premajor courses like CHE 105, CHE 107, CHE 111, CHE 113, MA 123, and ENG 203. Subtotal: Premajor Hours (15).

Students choose one of four Options in the Horticulture, Plant and Soil Science program - Horticulture Enterprise Management; Turfgrass Science; Crops and Livestock; and Crop, Soil and Horticulture Science. All students take the Major Requirements listed below.

Major Requirements

Table with 2 columns: Course Name, Hours. Lists major requirements like PLS 104, PLS 210, BIO 150, BIO 152, PLS 220, PLS 366, PLS 386, PLS 395, PLS 399, PLS 404, PLS 470G, PLS 490. Subtotal: Major Hours (30-33).

Options

Horticulture Enterprise Management Option

Table with 2 columns: Course Name, Hours. Lists Horticulture Enterprise Management Option courses like PLS 100, PLS 440, PLS 465, PLS 520, PPA 400G, and various PLS courses. Subtotal: Option Hours (23).

# Horticulture, Plant and Soil Sciences • 2

## Specialty Support Requirements

Select <b>21</b> hours of courses with consent of advisor .....	21
<b>Subtotal: Specialty Support</b> .....	<b>21</b>

## Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

<b>Subtotal: Electives</b> .....	<b>minimum of 3</b>
<b>TOTAL HOURS:</b> .....	<b>120</b>

## Turfgrass Science Option

PLS 514 Grass Taxonomy and Identification .....	3
PLS 515 Turf Management .....	3
PPA 400G Principles of Plant Pathology .....	3

Select additional **9** credit hours of PLS courses .....

<b>Subtotal: Option Hours</b> .....	<b>18</b>
-------------------------------------	-----------

## Specialty Support Requirements

ENT 320 Horticultural Entomology .....	3
--	---

CHE 226 Analytical Chemistry

or

CHE 236 Survey of Organic Chemistry .....	3
---	---

Select additional **15** credit hours of specialty support in consultation with academic advisor .....

<b>Subtotal: Specialty Support</b> .....	<b>21</b>
--	-----------

## Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

<b>Subtotal: Electives</b> .....	<b>minimum of 8</b>
----------------------------------	---------------------

<b>TOTAL HOURS:</b> .....	<b>120</b>
---------------------------	------------

## Crops and Livestock Option

PLS 510 Forage Management and Utilization .....	3
---	---

Select **15** credit hours of additional PLS courses .....

<b>Subtotal: Option Hours</b> .....	<b>18</b>
-------------------------------------	-----------

## Specialty Support Requirements

CHE 236 Survey of Organic Chemistry .....	3
---	---

Earn a minor in Animal Science .....

## Minor in Animal Sciences

### Prerequisites

Note that several classes in both Group A and Group B have prerequisites beyond ASC 101. These are indicated in parenthesis following the courses below. Students taking the minor are responsible for satisfying the prerequisites.

### Minor Requirements

ASC 101 Domestic Animal Biology .....	3
---------------------------------------	---

ASC 102 Applications of Animal Science .....	3
--	---

Additional Course Work .....

At least **9 credit hours** must be selected from the list that follows (Groups A and B). At least one course must be selected from Group A and one course from Group B.

## Group A

ASC 300 Meat Science .....	4
----------------------------	---

ASC 325 Animal Physiology ( <i>BIO 152 and CHE 107/113</i> ) .....	3
--	---

ASC 362 Animal Genetics .....	4
-------------------------------	---

ASC 364 Reproductive Physiology of Farm Animals ( <i>CHE 230 or 236</i> ) .....	4
--	---

ASC 378 Animal Nutrition and Feeding ( <i>CHE 230 or 236</i> ) .....	4
--	---

## Group B

ASC 340 Poultry Production .....	2
----------------------------------	---

ASC 404G Sheep Science ( <i>ASC 300, 362, 364</i> ) .....	4
---	---

ASC 406 Beef Cattle Science ( <i>ASC 300, 362, 364</i> ) .....	4
--	---

ASC 408G Swine Production ( <i>ASC 378</i> ) .....	2
--	---

ASC 410G Equine Science ( <i>ASC 362, 364</i> ) .....	3
---	---

ASC 420G Dairy Cattle Science ( <i>ASC 362, 364</i> ) .....	3
---	---

<b>Total Hours Required</b> .....	<b>15</b>
-----------------------------------	-----------

Additional specialty support classes may be selected in consultation with your academic advisor for a total of 21 hours in specialty support.

<b>Subtotal: Specialty Support</b> .....	<b>21</b>
--	-----------

## Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

<b>Subtotal: Electives</b> .....	<b>minimum of 8</b>
----------------------------------	---------------------

<b>TOTAL HOURS:</b> .....	<b>120</b>
---------------------------	------------

## Crop, Soil and Horticulture Science Option

Select **18** hours of PLS courses with consent of advisor .....

<b>Subtotal: Option Hours</b> .....	<b>18</b>
-------------------------------------	-----------

## Specialty Support Requirements

CHE 226 Analytical Chemistry

or

CHE 230 Organic Chemistry I

or

CHE 236 Survey of Organic Chemistry .....	3
---	---

STA 291 Statistical Method .....	3
----------------------------------	---

Select additional **15** credit hours from following list or other science courses selected with consent of advisor:

BIO 304 Principles of Genetics .....	4
--------------------------------------	---

BIO 308 General Microbiology .....	3
------------------------------------	---

BIO 315 Introduction to Cell Biology .....	3
--	---

BIO 430G Plant Physiology .....	3
---------------------------------	---

GLY 220 Principles of Physical Geology .....	4
--	---

PHY 211 General Physics .....	5
-------------------------------	---

PHY 213 General Physics .....	5
-------------------------------	---

CHE 231 Organic Chemistry Laboratory I .....	2
--	---

CHE 232 Organic Chemistry II .....	3
------------------------------------	---

CHE 233 Organic Chemistry Laboratory II .....	2
---	---

<b>Subtotal: Specialty Support</b> .....	<b>21</b>
--	-----------

## Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

<b>Subtotal: Electives</b> .....	<b>minimum of 5</b>
----------------------------------	---------------------

<b>TOTAL HOURS:</b> .....	<b>120</b>
---------------------------	------------