The Horticultural Science 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. Graduates have the technical and scientific skills as well as the communication, computational, leadership, and interpersonal capabilities necessary to function effectively as professionals. Careers are as diverse as they are challenging. Both options prepare graduates for specific professional opportunities.

### Options
Students pursuing a Horticultural Science degree may choose from two options:
- Horticultural Plant Production and Management
- Horticulture and Plant 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. In addition to the UK Core and college requirements, students must select an Option with the assistance of an advisor and fulfill the area’s program requirements.

### UK Core Requirements
See the UK Core section of the 2020-2021 Undergraduate Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

#### I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list.................................................................3

#### II. Intellectual Inquiry in the Humanities
Choose one course from approved list.................................................................3

#### III. Intellectual Inquiry in the Social Sciences
Recommended:
CLD 102 The Dynamics of Rural Social Life ....................................................3

#### IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
PLS 104 Plants, Soils, and People: A Science Perspective.................................3

#### V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .............................................3

#### VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .............................................3

#### VII. Quantitative Foundations
MA 123 Elementary Calculus and Its Applications..........................................3

#### VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty
- An Introduction to Statistical Reasoning
or
STA 296 Statistical Methods and Motivations..............................................3

#### IX. Community, Culture and Citizenship in the USA
GEN 100 Issues in Agriculture, Food and Environment ..............................3

#### X. Global Dynamics
Choose one course from approved list.............................................................3

#### UK Core hours
................................................................................................................31

#### Graduation Composition and Communication Requirement (GCCR)
PLS 490 Topics in Plant and Soil Science .......................................................3

#### Subtotal: Graduation Composition and Communication hours (GCCR).................................................................3

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

#### Premajor Requirements

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#### Subtotal: Premajor hours
..................................................................................10-14

*Sequence fulfills chemistry requirement for students in the Horticultural Plant Production and Management option only.

Students choose between the Horticulture Science option and the Horticultural Plant Production and Management option. All students take the same Major Core requirements listed below, but each option has a separate section of PLS 490 Topics in Plant and Soil Science.

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#### Major Requirements

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*OR
*BIO 148 Introductory Biology I and
*BIO 152 Principles of Biology II ..............................................................6

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*OR
*PLS 220 Introduction to Plant Identification ..............................................3

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*PLS 386 Plant Production Systems ............................................................4

### – CONTINUED –
Horticultural Science • 2

PLS 395 Special Problems in Plant and Soil Science ................................................................. 3

or
PLS 399 Experiential Learning in Plant and Soil Science ......................................................... 3

PLS 404 Integrated Weed Management .................................................................................. 4

PLS 440 Plant Propagation ................................................................................................... 3

PLS 490 Topics in Plant and Soil Science ............................................................................. 3

Subtotal: Major hours ........................................................................................................... 31-34

*Students in the Horticulture and Plant Science option take BIO 148/BIO 152.

OPTIONS

Horticultural Plant Production and Management Option
Select 21 hours of PLS courses with consent of advisor.

Subtotal: Option hours ........................................................................................................... 21

Specialty Support Requirements
ENT 320 Horticultural Entomology ........................................................................................ 3
PPA 400G Principles of Plant Pathology .............................................................................. 3

Additional courses in SAG, AEC, ECO, ENT or consent of advisor ................................. 15

Subtotal: Specialty Support .................................................................................................. 21

Horticulture and Plant Science Option
Select 21 hours of PLS courses with consent of advisor.

Subtotal: Option hours ........................................................................................................... 21

Specialty Support Requirements
CHE 236 Survey of Organic Chemistry

or
CHE 230 Organic Chemistry I

or
CHE 226 Analytical Chemistry ............................................................................................ 3

STA 296 Statistical Methods and Motivations ....................................................................... 3

Additional courses in BIO, CHE, PPA, ENT, FOR or consent of advisor .......................... 15

Subtotal: Specialty Support .................................................................................................. 21

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

Subtotal: Electives ............................................................................................................... minimum of 1

TOTAL HOURS: ................................................................................................................... 120