B.S. Plant Sciences - **Ornamental Horticulture Option** Effective Fall 2022
EL_EHTM_BS 120 Earned Credits Total

**Student:** _____ **ID No.:**_____ **Advisor:** _____

## I. GENERAL EDUCATION *(min 40 cr)*

| | Course No. | Grade | Cr. |
|---|---|---|---|
| **Knowledge** | | | |
| A1. STEM | | | |
| A2. Social and Behavioral Sciences | | | |
| A3. Humanities | | | |
| A4. Arts and Design | | | |
| **Competencies** | | | |
| B1. Write effectively | | | |
| B2. Communicate effectively | | | |
| B3. Mathematical, statistical or computation | | | |
| B4. Information literacy | | | |
| **Responsibilities** | | | |
| C1. Civic knowledge & responsibilitiy | | | |
| C2. Global responsibilities | | | |
| C3. Diversity and inclusion | | | |
| **Integrate & Apply** | | | |
| D1. Ability to Synthesize | | | |
| **Grand Challenge** | | | |
| G. Grand Challenge Course | | | |
| Additional General Education Class | | | |
| Additional General Education Class | | | |
| Additional General Education Class | | | |
| Additional General Education Class | | | |

*Course fulfills general education and a major requirement

## II. PRE-PROFESSIONAL & BASIC SCIENCES

*(29 credits required)*

| | Course No. | Grade | Cr. |
|---|---|---|---|
| *A. Biology (8)* | | | |
| Principles of Biology I *(BIO 101/103; 3,1cr) | | | |
| Principles of Biology II *(BIO 102/104; 3,1cr) | | | |
| *B. Chemistry (4 cr)* | | | |
| CHM *101/102 or *103/105 (3,1cr) | | | |
| *C. Plant Sciences (17 cr)* | | | |
| Introductory Horticulture *(PLS150; 3cr, S/F) | | | |
| Plant Protection (PLS200; 4cr, F) | | | |
| Plant Propagation (PLS215; 3cr, S) | | | |
| Plant Breeding & Genetics (PLS250; 4cr, S) | | | |
| Applied Plant Biology (PLS255; 3cr, S) | | | |

***Approved for Graduation:***

Advisor: _____ Date: _____

## III. PROFESSIONAL CONCENTRATION *(min 30 cr)*

| *Course Description:* | Course No. | Grade | Cr. | *Off:* |
|---|---|---|---|---|
| **Suggested Courses:** | | | | |
| Introductory Entomology | ENT 385 (3) | | | *F* |
| Plant Pathology | PLS 332 (4) | | | *F* |
| Plant Propagation Practicum | PLS 216 (2) | | | *S* |
| Landscape Management | PLS 306 (4) | | | *F* |
| Greenhouse Management | PLS 331 (4) | | | *Alt. F* |
| Herbaceous Garden Plants | PLS 350 (3) | | | *F* |
| Landscape Plants I | PLS 353 (3) | | | *F* |
| Landscape Plants II | PLS 354 (3) | | | *S* |
| **Additional Concentration Courses:** | | | | |
| Fruit Culture | PLS 311 (3) | | | *S* |
| Fruit Culture Practicum | PLS 312 (2) | | | *S* |
| Landscape Design | PLS 320 (3) | | | *Alt. F* |
| Power Units | PLS 322 (3) | | | *S* |
| Vegetable Crops | *PLS 324 (4) | | | *F* |
| Hyrdoponic and Greenhouse Veg. Prod | PLS 325 (2) | | | *S* |
| Weed Science | PLS 361 (3) | | | *F* |
| Irrigation Technology | PLS 390 (3) | | | *F* |
| Plant Sciences Seminar I | PLS 401 (1) | | | *F* |
| Plant Sciences Seminar II | PLS 402 (1) | | | *S* |
| Advanced Turf Management | PLS 442 (3) | | | *S* |
| Insect Biological Control | ENT 519 (3) | | | *Alt. S* |
| Insect Pest Management | ENT 555 (3) | | | *Alt. S* |
| Intro. to Soil Science | NRS 212 (4) | | | *S/F* |

## IV. EXPERIENTIAL LEARNING *(up to 12 credits)*

| *Course Description:* | Course No. | Grade | Cr. | *Off:* |
|---|---|---|---|---|
| Plant Sciences Internship I | PLS 399 (1-3) | | | *F, S* |
| Plant Sciences Internship II | PLS 399 (1-3) | | | *F, S* |
| Special Project/Independent Study | PLS 491 (1-3) | | | *F* |
| Special Project/Independent Study | PLS 492 (1-3) | | | *S* |

## V. SUPPORTING AND OTHER ELECTIVES *(min 15 cr)*

| *Course Description:* | Course No. | Grade | Cr. |
|---|---|---|---|
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |
| _____ | | | |

**Course Credits Required:** 120
**Course Credits Completed**:

B.S. Plant Sciences- **Ornamental Hoticulture Option** Effective Fall 2022
Sample 4 Year Plan
**College of the Environment and Life Sciences**

### Freshman Year *Fall* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| URI 101 | Planning for Academic Success | 1 | |
| *PLS 150 | Plant Biology for Gardeners | 3 | |
| *BIO 101,103 | Principles of Biology I, Lab | 4 | |
| | *General Education Course | 3-4 | |
| | *General Education Course | 3-4 | |
| | | | |
| | | 14-16 | |

### Freshman Year *Spring* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| PLS 215/216 | Plant Propagation & Practicum | 3-5 | |
| *BIO 102,104 | Principles of Biology II, Lab | 4 | |
| CHM 103,105 | Introductory Chemistry, Lab | 4 | |
| | *General Education Course | 3 | |
| | Supporting or Free Elective | 3 | |
| | | | |
| | | 17-19 | |

**Year 1 Milestones:** Earn 30 credits and a GPA of 2.0 or higher. Meet with your Advisor for ETHM option discussion.

### Sophomore Year *Fall* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| PLS 200 | Plant Protection | 4 | |
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | *General Education Course | 3-4 | |
| | | | |
| | | | |
| | | 13-16 | |

### Sophomore Year *Spring* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| PLS 250 | Plant Breeding and Genetics | 4 | |
| PLS 255 | Applied Plant Biology | 3 | |
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | *General Education Course | 3-4 | |
| | | | |
| | | 16-19 | |

**Year 2 Milestones:** Earn 60 credits and a GPA of 2.0 or higher. Meet with your Advisor to discuss major, internships and research opportunities.

### Junior Year *Fall* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | Concentration Course | 1-3 | |
| | Supporting or Free Elective | 3-4 | |
| | Supporting or Free Elective | 3-4 | |
| | | | |
| | | 13-19 | |

### Junior Year *Spring* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | Concentration Course | 1-3 | |
| | Supporting or Free Elective | 3-4 | |
| | Supporting or Free Elective | 3-4 | |
| | | | |
| | | 13-19 | |

**Year 3 Milestones:** Earn 90 credits and a GPA of 2.0 or higher. Meet with your Advisor to prepare intent to graduate application for fall submission.

### Senior Year *Fall* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | Supporting or Free Elective | 3-4 | |
| | Experiential Learning | 1-3 | |
| | | | |
| | | 13-19 | |

### Senior Year *Spring* Semester

| Course Code | Description | Cr | |
|---|---|---|---|
| | Concentration Course | 3-4 | |
| | Concentration Course | 3-4 | |
| | Concentration Course | 1-3 | |
| | Supporting or Free Elective | 3-4 | |
| | Supporting or Free Elective | 3-4 | |
| | | | |
| | | 13-19 | |

**Year 4 Milestones:** Earn 120 credits and a GPA of 2.0 or higher in CUM and CON. Complete all remaining required courses.

**Total Credits to Graduate =** 120

Effective Fall 2022