

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, computation | | | |
| B4. Information literacy | | | |
| Responsibilities | | | |
| C1. Civic knowledge & responsibility | | | |
| 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 *(BIO101/103; 4cr) | | | |
| Principles of Biology II *(BIO102/104; 4cr) | | | |
| B. Chemistry (4 cr) | | | |
| CHM *101/102 or *103/105 (3,1) (S/F) | | | |
| 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: _____

Course Credits Required: 120
Course Credits Completed:

| III. PROFESSIONAL CONCENTRATION (min 30 cr) | | | | |
|---|--------------|-------|-----|--------|
| Course Description: | Course No. | Grade | Cr. | Off: |
| Suggested Courses: | | | | |
| Introductory Entomology | ENT 385 (3) | | | F |
| <i>or Insects of Turf and Ornamentals</i> | ENT 387 (3) | | | F |
| Pesticides and the Environment | ENT 411 (3) | | | S |
| Plant Propagation Practicum | PLS 216 (2) | | | |
| Pasture and Grazing Management | PLS 275 (4) | | | S |
| Fruit Culture | PLS 311 (3) | | | S |
| Fruit Practicum | PLS 312 (2) | | | S |
| Sustainable Grain Production | PLS 321 (4) | | | F |
| Vegetable Crops | *PLS 324 (4) | | | F |
| Vegetable Practicum | PLS 325 (2) | | | F |
| Plant Pathology | PLS 332 (4) | | | S |
| Intro. to Soil Science | NRS 212 (4) | | | S/F |
| Additional Concentration Courses: | | | | |
| Agroecology and Food Systems | PLS 385 (4) | | | F |
| Bee Biology and Pollination Ecology | ENT 388 (3) | | | S |
| Power Units | PLS 322 (3) | | | S |
| Greenhouse Management | PLS 331 (4) | | | Alt. S |
| Weed Science | PLS 361 (3) | | | Alt. F |
| Soil Fertility and Plant Nutrition | PLS 375 (3) | | | F |
| Irrigation Technology | PLS 390 (3) | | | Alt. 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. |
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Suggested Supporting Electives:
 Anthropology of Nutrition APG 301
 Migration in the Americas APG 415
 Feeds and Feeding AVS 212
 Insect Biocontrol ENT 519
 Food Sys., Sustainability & Health NFS 504
 Soil Microbiology NRS 426
 Plant Plagues PLS 415
 plus courses in Resource Economics, Business, Aquaculture, Soil Science

EXAMPLE

B.S. Plant Sciences- **Sustainable Crop Production** Effective Fall 2021
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 2021