

Student: \_\_\_\_\_ ID No.: \_\_\_\_\_ Advisor: \_\_\_\_\_

I. GENERAL EDUCATION (min 40 cr)			
	Course No.	Grade	Cr
<b>Knowledge</b>			
A1. STEM			
A2. Social and Behavioral Sciences			
A3. Humanities			
A4. Arts and Design			
<b>Competencies</b>			
B1. Write effectively			
B2. Communicate effectively			
B3. Mathematical, statistical, computation			
B4. Information literacy			
<b>Responsibilities</b>			
C1. Civic knowledge & responsibility			
C2. Global responsibilities			
C3. Diversity and inclusion			
<b>Integrate &amp; Apply</b>			
D1. Ability to Synthesize			
<b>Grand Challenge</b>			
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
<b>A. Biology (8)</b>			
Principles of Biology I *(BIO101/103; 4cr)			
Principles of Biology II *(BIO102/104; 4cr)			
<b>B. Chemistry (4 cr)</b>			
CHM *101/102 or *103/105 (3,1) (S/F)			
<b>C. Plant Sciences (17 cr)</b>			
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:
<b>Suggested Courses:</b>				
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
<b>Additional Concentration Courses:</b>				
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.

**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 2019  
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	
		<b>14-16</b>	

### 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	
		<b>17-19</b>	

**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	
		<b>13-16</b>	

### 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	
		<b>16-19</b>	

**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	
		<b>13-19</b>	

### 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	
		<b>13-19</b>	

**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	
		<b>13-19</b>	

### 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	
		<b>13-19</b>	

**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 2019