B.S. Plant Sciences - **Sustainable Crop Production 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, 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 *(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: _____

III. PROFESSIONAL CONCENTRATION *(min 30 cr)*

Course Description:	Course No.	Grade	Cr.	Off:
Suggested Courses:				
Introductory Entomology	ENT 385 (3)			*F*
Plant Propagation Practicum	PLS 216 (2)			*S*
Pasture and Grazing Management	PLS 275 (4)			*Su, F*
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*
Hydroponic and Greenhouse Veg. Prod.	PLS 325 (2)			*S*
Plant Pathology	PLS 332 (4)			*S*
Intro. to Soil Science	NRS 212 (4)			*F*
Additional Concentration Courses:				
Agroecology and Food Systems	PLS 385 (4)			*F*
Power Units	PLS 322 (3)			*S*
Greenhouse Management	PLS 331 (4)			*Alt. F*
Weed Science	PLS 361 (3)			*Alt. F*
Irrigation Technology	PLS 390 (3)			*Alt. F*
Bee Biology and Pollination Ecology	ENT 388 (3)			*S*
Insect Biological Control	ENT 519 (3)			*Alt. S*
Insect Pest Management	ENT 555 (3)			*Alt. S*
Intro to Global Issues in Sus. Develop.	NRS 300 (3)			*F, S*
Soil-Water Chemistry	NRS 412 (3)			*Alt. S*
Soil Microbiology	NRS 426 (3)			*Alt. S*
Reimagining Food Systems…	SAF 400G (3)			*F*
Food Systems, Sustainability, Health	SAF 404 (3)			*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:

EXAMPLE

B.S. Plant Sciences- **Sustainable Crop Production** 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