SUSTAINABLE FOOD SYSTEMS - BS

EFFECTIVE FALL 2026

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

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

	Course No.	Grade	Cr.
Knowledge			
A1. STEM	BIO 101		
A2. Social & Behavioral Sciences	EEC 105		
A3. Humanities			
A4. Arts & Design			
Competencies			
B1. Written Communications (e.g. SAF305)			
B2. Communicate Effectively			
B3. Math., Stats., Comp. Literacy	NUT 207		
B4. Information Literacy			
Responsibilities			
C1. Civic Knowledge Responsibilitiy	HSS/PSY 130G		
C2. Global Responsibility (e.g. SAF305)			
C3. Diversity & Inclusion			
Integrate & Apply			
D1. Integrate & Apply (e.g. SAF400G, PLS324)			
Grand Challenge			
G. Grand Challenge	HSS/PSY 130G		
Additional General Education			
Additional General Education			
Additional General Education			
Additional General Education			

II. BASIC SCIENCES *(12 cr. required)*

Course Description:	*Course No.*	*Grade*	*Cr.*
A. Biology (8 cr.)			
Principles of Biology I (3; F,S) (A1)	BIO 101		3
Principles of Biology Lab I (1; F,S)	BIO 103		1
Principles of Biology II (3; F,S) (A1)	BIO 102		3
Principles of Biology Lab II (1; F,S)	BIO 104		1
B. Chemistry (4 cr.)			
CHM 101 or CHM 103 (3; F,S)	CHM		3
CHM 102 or CHM 105 (1; F,S)	CHM		1

III. PRE-PROFESSIONAL *(22 cr. required)*

Course Description:	*Course No.*	*Grade*	*Cr.*
A. Intro to SAFS (9 cr.)			
Intro to Sustainable Food Systems (3) (A2)	PLS 132G or SAF 101G		3
Sustainability* (3)			3
The Problem of Hunger in the US (3) (A2,C1)	HSS/PSY 130G		3
B.Sustainable Production (Two from below, 7-8 cr.)			
Food from the Sea (A1, G) **with** Lab (4)	AFS 105G (with lab)		3
	AFS 106 (with lecture)		1
Intro to Animal Science (A1) **with** Lab (4)	AVS 101 (with lab)		3
	AVS 102 (with lecture)		1
Plants, People & the Planet (3) (A1)	PLS 150		3
C. Supporting Knowledge (6 cr.)			
Intro to Resource Economics (3) (A2)	EEC 105		3
General Nutrition (3) (A1,B3)	NUT 207		3

Course Credits Required: 120
Course Credits Completed: _____

IV. PROFESSIONAL CONCENTRATION *(min 30 cr. total)*

Course Description:	*Course No.*	*Grade*	*Cr.*
A. Food and Society (1 from below, min 3 cr.)			
Sust. Ag & Food Cultures (3)	APG/GWS/SOC 308		
Food Justice (3) (A2, C3)	SAF 383		
B. Soil Science (3 cr.)			
Introduction to Soil Science (3)	NRS 212		
C. Production Management (3-4 from below, min 9 cr.)			
Aquatic Management			
Finfish Aquaculture (4)	AFS 201		
Shellfish Aquaculture (3)	AFS 202		
Fisheries Science (3)	AFS 215		
World Fishing Methods with Lab (4)	AFS 321/322		
Crustacean Aquaculture (3)	AFS 362		
Livestock Production			
Pasture and Grazing Mgmt in Sust Ag (4)	AVS/PLS 275		
Advanced Animal Management Tech (3)	AVS 304		
Ruminant Livestock Management (3)	AVS 323		
Non-Ruminant Livestock Management (3)	AVS 324		
Advanced Small Farm Management (4)	AVS 400		
Crop Production			
Fruit Culture (3)	PLS 311		
Fruit Culture Practicum (2)	PLS 312		
Vegetable Crops (4)	PLS 324		
Hydroponic and Greenhouse Veg Prod (2)	PLS 325		
Horticultural Plant Production (4)	PLS 331		
D. Food System Related Electives (300-level from list** or above, min 9 cr.)			
E. Capstone (1 from below, 3 cr.)			
Aquatic Food Prod in the Phillipines (3) (D1)	AFS 440		
Urban Ag: Policy, Planning, & Des (3) (D1, GC)	SAF 400G		
Agroecology & Global Food Systems (3)	PLS 385		
F. Internship^ (3 cr.)			
Internship/Special Project (3)			
			0

VI. SUPPORTING ELECTIVES^^ *(min 15 cr.)*

Course Description:	*Course No.*	*Grade*	*Cr.*
			0

VII. Other electives to meet 120 cr minimum

Course Description:	*Course No.*	*Grade*	*Cr.*
Planning for Academic Success	URI 101 (1)		

*Ex: SUS102X, SAF305, COM/SUS 108G, 315, 460. ****See list of food system related electives.** ^**Any internship/special project course code in**: AFS, APG, AVS, NFS, PLS, SOC, and SAF. ^^**Supporting Electives**: Any course from AFS, APG, AVS, EEC, ENT, LAR, MAF, NRS, PLS, SOC, SAF.

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Food System Related Electives (300 level or above)		
Course Code	**Course (Semester offered, credits)**	**GenEd Outcome**
AFS 321/322	World Fishing Methods with Lab (F, 3/1 cr.)	
AFS 362	Crustacean Aquaculture (S, 3 cr.)	
AFS 415	Fishery Ecology (F/S, 3 cr.)	
AFS 425	Aquaculture and the Environment (F, 3 cr.)	
AFS 432	Marine Finfish Aquaculture (S, 3 cr.)	
AFS 440	Aquatic Production in the Philippines (3 cr.)	D1
APG/GWS/SOC308	Sustainable Agriculture and Food Cultures (F/S, 3 cr.)	
AVS 304	Advanced Animal Management Tech (F/S, 3 cr.)	
AVS 323	Ruminant Livestock Management (F, 3 cr.)	
AVS 324	Non-Ruminant Livestock Management (S, 3 cr.)	
AVS 400	Advanced Small Farm Management (S, 4 cr.)	
AVS 412	Animal Nutrition (F, 3 cr.)	
AVS/AFS/SAF 404	Food Systems, Sustainability and Health (F, 3 cr.)	B4, D1
AVS/PLS 275	Pasture & Grazing Management in Sustainable Agriculture (F, 4 cr.)	
EEC 310	Economics of Natural Resource Management and Policy (F, 3 cr.)	
EEC 345G	Sustainable Development, Trade, and the Environment (F, 3 cr.)	B4, C2, GC
EEC 430	Water Resource Economics (S, 3 cr.)	
ENT 388	Biology of Bees and Pollination Ecology (F/S, 3 cr.)	
ENT 455	Sustainable Pest Management (3 cr.)	
ENT 511	Pesticides and the Environment (S, 3 cr.)	
ENT 519	Insect Biological Control (S, 3 cr.)	
HIS 364	U.S. Environmental History (F/S, 3 cr.)	B4, C1
LAR 350	Sustainable Communities for the 21st Century (F, 3 cr.)	B2, C1
MAF 320	Shipping and Ports (F, 3 cr.)	B4, C2
MAF 340	Environmental Sociology (F, 3 cr.)	
MAF 413	Peoples of the Sea (F, 3 cr.)	
NRS 300	Introduction to Global Issues in Sustainable Development (F/S, 3 cr.)	A2, C2
NRS 326	Leadership in Global Environmental and Health Crises (F, 3 cr.)	
NRS 330G	The Biodiversity Crisis (F, 3 cr.)	A1, C2, GC
NRS 355	Wildlife Conservation & Hunting (F, 3 cr.)	
NRS 409	Concepts in GIS and Remote Sensing (F, 4 cr.)	
NRS 410	Fundamentals of GIS (F/S, 3 cr.)	
NUT 336	Scientific Principles of Food I (F, 4 cr.)	
NUT 337	Scientific Principles of Food II (S, 4 cr.)	
NUT 375	Food Service Management I (F, 3 cr.)	
NUT 376	Food Service Management II (S, 4 cr.)	
NUT 394	Nutrition in the Life Cycle I (F, 3 cr.)	
NUT 395	Nutrition in the Life Cycle II (S, 3 cr.)	
NUT 440	Macronutrient Metabolism (S, 3 cr.)	
NUT 441	Micronutrient Nutrition (F, 3 cr.)	
NUT 443	Nutrition Assessment (F, 4 cr.)	
NUT 458	Nutrition Education (F, 3 cr.)	B2, D1
PLS 311	Fruit Culture (S, 3 cr.)	
PLS 312	Fruit Culture Practicum (S, 2 cr.)	
PLS 324	Vegetable Crops (F, 4 cr.)	B4, D1
PLS 325	Hydroponic and Greenhouse Vegetable Production (S, 2 cr.)	
PLS 331	Horticultural Plant Production (F, 4 cr.)	
PLS 361	Weed Science (F, 3 cr.)	
PLS 385	Agroecology and Global Food Systems (F, 3 cr.)	
PLS 390	Irrigation Technology (F, 3 cr.)	
PLS 430	Landscape Design (F/S, 3 cr.)	
SAF 383	Food Justice (S, 3 cr.)	A2, C3
SAF 400G	Reimagining Food Systems Through Agroecology (S, 3 cr.)	D1, GC
WRT 302	Writing Culture (F/S, 4 cr.)	

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First Year *Fall* Semester

Course Code	Description	Cr	
URI 101	Planning for Academic Success	1	
BIO 101, 103	Principles of Biology I and Lab	3/1	
NUT 207	General Nutrition	3	
EEC 105	Introduction to Resource Economics	3	
NUT 207	General Nutrition	3	
		14	

First Year *Spring* Semester

Course Code	Description	Cr	
BIO 102, 104	Principles of Biology II and Lab	3/1	
AFS 105G, AVS 101 or PLS 150	Sustainable Production	3-4	
MTH 103/111/131	Applied PreCalc, PreCalc, or Applied Calc	3	
	Sustainable Food Systems Concentration	3-4	
	*General Education	3-4	
		16-18	

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

Sophomore Year *Fall* Semester

Course Code	Description	Cr	
CHM 101/102 or CHM 103/105	Chemistry 101 or Introductory Chemistry	3/1	
SOC/APG/GWS 308	Sustainable Agriculture and Food Cultures	3	
	Sustainable Food Systems Concentration	3-4	
	*General Education or Supporting Elective	3-4	
	*General Education	3-4	
		16-20	

Sophomore Year *Spring* Semester

Course Code	Description	Cr	
SAF 308	Food Justice or Food Sys. Concentration	3	
	Sustainable Food Systems Concentration	3-4	
	Sustainable Food Systems Concentration	3-4	
	Supporting Elective or Free Elective	3-4	
	Supporting Elective or Free Elective	3-4	
		15-19	

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	
NRS 212	Introduction to Soil Science	4	
	Sustainable Food Systems Concentration	3-4	
	Experiential Learning Exp. or Internship	3-4	
	Supporting Elective or Free Elective	3-4	
	General Education	3-4	
		16-18	

Junior Year *Spring* Semester

Course Code	Description	Cr	
HSS/PSY 130G	The Problem of Hunger in the US	3	
	Sustainable Food Systems Concentration	3-4	
	Sustainable Food Systems Concentration	3-4	
	Sup. Elective or Special Project/ Internship	3-4	
	General Education or Free Elecitve	3-4	
		15-19	

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	
PLS 385	Agroecology & Global Food Systems	3-4	
	Sustainable Food Systems Concentration	3-4	
	Sup. Elective or Special Project/Internship	3-4	
	Supporting or Free Elective	3-4	
	Supporting or Free Elective	3-4	
		15-19	

Senior Year *Spring* Semester

Course Code	Description	Cr	
SAF 400G	Reimagining Food Sys. Through Agroeco	3	
	Sustainable Food Systems Concentration	3-4	
	Sup. Elective or Special Project/Internship	3-4	
	Supporting or Free Elective	3-4	
	Supporting or Free Elective	3-4	
		15-19	

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