

SUSTAINABLE AGRICULTURE & FOOD SYSTEMS - SUSTAINABLE AGRICULTURE OPTION

EFFECTIVE FALL 2024

Student: _____

ID No.: _____

Advisor: _____

I. GENERAL EDUCATION (min 40 cr)

Knowledge

- A1. STEM
- A2. Social and Behavioral Sciences
- A3. Humanities
- A4. Arts and Design

Course No.	Grade	Cr.

Competencies

- B1. Write effectively
- B2. Communicate effectively
- B3. Math, stats, computation
- B4. Information literacy

Course No.	Grade	Cr.

Responsibilities

- C1. Civic knowledge & responsibility
- C2. Global responsibilities
- C3. Diversity and inclusion

Course No.	Grade	Cr.

Integrate & Apply

- D1. Ability to Synthesize
(e.g. SAF400G, PLS324, AVS/NUT/SAF404)

Course No.	Grade	Cr.

Grand Challenge

- G. Grand Challenge Course

Course No.	Grade	Cr.

- Additional General Education
- Additional General Education
- Additional General Education
- Additional General Education

Course No.	Grade	Cr.

III. PROFESSIONAL CONCENTRATION (min 21 cr total)

Course Description: Course No. Grade Cr.

Intro Sustainable Agr-Choose min 2 from below (min 6 cr)

Food from the Sea (A1,G) & Lab	AFS 105G/106 (4)		
Intro Animal Science (A1) & Lab	AVS 101/102 (4)		
Plants, People & the Planet (A1)	PLS 150 (3)		
Applied Plant Biology	PLS 255 (3)		

Agricultural Mat - Choose min 2 from below (min 6 cr)

Finfish Aquaculture	AFS 201 (4)		
Shellfish Aquaculture	AFS 202 (3)		
Fisheries Science	AFS 215 (3)		
World Fishing Methods	AFS 321/322 (4)		
Adv. Animal Management Tech	AVS 304 (2)		
Ruminant Livestock Mgmt.	AVS 323 (3)		
Non-Ruminant Livestock Mgmt.	AVS 324 (3)		
Fruit Culture	PLS 311 (3)		
Fruit Culture Practicum	PLS 312 (2)		
Sustainable Grain Prod	PLS 321 (4)		
Vegetable Crops (D1,B4)	PLS 324 (4)		
Hydroponic & Greenhouse Veg. Prod.	PLS 325 (2)		

Additional courses (to substitute for any of above)*

Environment-related - Choose one (min 3 cr)**

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II. PRE-PROFESSIONAL & BASIC SCIENCES

(33 cr required)

A. Biology (8 cr)

- Principles of Biology I* (3,1; F,S) (A1)
- Principles of Biology II (3,1; F,S) (A1)

Course No.	Grade	Cr.
BIO101/103		3,1
BIO102/104		3,1

B. Chemistry (4 cr)

- CHM 101/102 or 103/105 (3,1; F,S)

Course No.	Grade	Cr.
		3,1

C. Food and Society (3 cr)

- APG/GWS/SOC308 Sust Ag & Food Cult
- or SAF383 Food Justice

Course No.	Grade	Cr.
		3

D. Intro to Soil Science (3 cr)

- NRS 212

Course No.	Grade	Cr.
NRS 212		4

E. Intro to SAFS (15 cr)

- Sustainable Ag, Food Syst & Soc (3) (A2)
- Economics (3, ECN201, EEC105, or INE 149)
- Sustain., (3, Ex: Com/SUS 108G, 315, 460)
- The Problem of Hunger in the US (3) (A2,C1)
- General Nutrition (3) (A1,B3)

AFS/AVS/PLS 132G		3
		3
		3
HSS/PSY 130G		3
NUT 207		3

IV. INTERDISCIPLINARY COMPONENT (min 12 cr.)

Choose 1-3 courses from Food & Society Option ***

Course No.	Grade	Cr.

Choose 1-3 courses from Nutrition & Food Option ***

Course No.	Grade	Cr.

V. CAPSTONE (12 cr total, 3 cr internship)

Course No.	Grade	Cr.

VI. SUPPORTING ELECTIVES (min 18 cr)

Course No.	Grade	Cr.

VII. Other electives to meet 120 cr minimum

Planning for Academic Success	URI 101 (1)		

* **Additional Concentration:** Choose agriculture & food related courses from AFS, AVS, ENT, NRS, PLS, SAF; ** **Environment-related options include:** VS/PLS275, BIO262, BIO323, CHE212, ENT555, ENT/BIO/NRS388, GEO100G, GEO110, GEO280, GEO305G, LAR350, LAR387G, NRS223, NRS234G, NRS301, NRS304, NRS350, NRS409, NRS410, OCG123G *** **See list of interdisciplinary options** **** **Any internship/special project course code in:** AFS, APG, AVS, NUT, PLS, SOC, and SAF. #**Supporting Electives:** Any course from AFS, APG, AVS, EEC, ENT, MAF, NRS, PLS, SOC, SAF.

Approved for Graduation:

Advisor: _____ Date: _____

Course Credits Required: 120 Course Credits Completed: _____

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Interdisciplinary Component from the Food and Society Option

APG/MAF 413 Peoples of the Sea
APG 203 Cultural Anthropology
APG/SOC 329 Contemporary Mexican Society
APG/SOC 415 Migration in the Americas
COM/SUS 108G Spaceship Earth: Communication and Sustainability
COM 315 Environmental Dimensions of Communication
COM 460 Environmental Communication: Local & Global
EEC 205 Environmental Economics and Policy
EEC 310 Economics of Natural Resource Management and Policy
EEC 350 Sustainable Energy Economics and Policy
EEC 355 The Economics of Climate Change
EEC 440 Benefit-Cost Analysis
INE 304G Social Entrepreneurship & Innovation
GWS 490 Advanced Topics in Women's Studies
MAF 100 Human Use and Mgt of the Marine Environment
MAF 330 World Fishing

Interdisciplinary Component from the Nutrition and Food Option

NUT 212 Public Health Nutrition
NUT 336 Scientific Principles of Food I (pre-req CHM124)
NUT 375 Food Service Management I
NUT 394 Nutrition through the Lifecycle I
NUT/CMB 245 Food Safety
NUT 337 Scientific Principles of Food II
NUT 376 Food Service Management II
NUT 395 Nutrition through the Lifecycle II

Interdisciplinary Component from the Sustainable Agriculture Option

AFS 105G Food from the Sea
AFS 201 Shellfish Aquaculture
AFS 202 Finfish Aquaculture
AFS 321 World Fishing Methods
AVS 101 Introduction to Animal Science
AVS/PLS 275 Pasture & Grazing Management in Sustainable Agriculture
NRS 212 Introduction to Soil Science
PLS 150 Plants, People, and the Planet
PLS 255 Horticulture Plant Science

Optional Capstone Courses

AVS/NUT/SAF 404 Food Systems, Sustainability & Health
MAF 350 Introduction to Global Issues in Sustainable Development
PLS 320 Sustainable Landscape Design
SAF 400G Reimagining Food Systems Through Agroecology
WRT 404 Writing with Community Partners

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Freshman Year *Fall* Semester

Course Code	Description	Cr	
URI 101	Planning for Academic Success	1	
*BIO 101,103	Principles of Biology I	4	
NUT 207	General Nutrition	3	
AFS/AVS/PLS 132G	Sustainable Ag, Food Systems, & Society	3	
ECN / EEC / INE	Economics (ECN 201, EEC 105, INE 149)	3	
			14

Freshman Year *Spring* Semester

Course Code	Description	Cr	
*BIO 102,104	Principles of Biology II	4	
AFS/AVS/PLS	Intro Sustainable Agriculture	3	
	Sustainable Agriculture Concentration	3-4	
	Supporting Elective	3	
	*General Education	3	
			16-17

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	Chemistry (CHM 101/102 or CHM 103/105)	4	
	Food & Society (APG/GWS/SOC 308 or SAF 383)	3	
AFS/AVS/PLS	Intro Sustainable Agriculture	3	
	Interdisciplinary Component	3-4	
	*General Education	3	
			16-17

Sophomore Year *Spring* Semester

Course Code	Description	Cr	
	Sustainable Agriculture Concentration	3-4	
	Interdisciplinary Component	3	
	Supporting Elective	3	
	Supporting Elective	3	
	*General Education	3	
			15-16

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	
COM / SUS	Sustainability (COM/SUS 108G, COM 315, COM 460)	3-4	
	Interdisciplinary Component	3	
	Capstone Course or Internship	3	
	General Education or Free Elective	3	
			16-17

Junior Year *Spring* Semester

Course Code	Description	Cr	
	Sustainable Agriculture Concentration	3-4	
	Interdisciplinary Component	3	
HSS/PSY 130G	The Problem of Hunger in the US	3	
	Capstone Course or Internship	3	
	General Education or Free Elective	3	
			15-16

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	
	Sustainable Agriculture Concentration	3-4	
	Capstone Course or Internship	3	
	Supporting Elective	3	
	Supporting or Free Elective	3	
	General Education or Free Elective	3	
			15-16

Senior Year *Spring* Semester

Course Code	Description	Cr	
	Sustainable Agriculture Concentration	3-4	
SAF400G	Capstone Course or Internship	3	
	Supporting Elective	3	
	Supporting or Free Elective	3	
	General Education or Free Elective	3	
			15-16

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

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Advising Notes