

Effective 2019 - 2020

**Department of Natural Resources & Environmental Design
Bachelor of Science in Agricultural and Environmental Systems (Sustainable Land and Food Systems)
Major Code: AES*
Concentration Code: SLFS**

Curriculum Guide

Course	CR	Course	CR
Freshman Year: First Semester		Freshman Year: Second Semester	
ENGL 100 ¹	3	ENGL 101 ¹	3
MATH 101	3	MATH 102	3
NARS 100 ²	1	CHEM 103	3
NARS 110	3	Social Behavioral Science	3
African American Studies Elective ⁴	3	Global Awareness Elective ⁶	3
FRST 101 ⁵	1	NARS 225:	1
Semester Total	14	Semester Total	16
Sophomore Year: First Semester		Sophomore Year: Second Semester	
CHEM 106	3	SLMG 200	4
CHEM 116	1	SPCH 250	3
Humanities and Fine Arts Elective	3	MATH 224	3
BIOL 101	4	PHYS 110	2
HORT 210	3	PHYS 111	1
Semester Total	14	Elective	3
		Semester Total	16
Junior Year: First Semester		Junior Year: Second Semester	
HORT 301	3	ABM 330	3
SLMG 300	3	HORT 334	3
Concentration Electives	9	HORT 400	3
Semester Total	15	Concentration Electives	6
		Semester Total	15
Senior Year: First Semester		Senior Year: Second Semester	
HORT 420	3	NARS 487	3
HORT 422	3	HORT 430	3
AGRI 400	3	Concentration Electives	9
Concentration Electives	6	Semester Total	15
Semester Total	15		

Total Credit Hours: 120

REQUIRED COURSES for Concentration

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|--|---|
| NARS 100: Department Orientation (F) | HORT 210: The Science of Plants (F) |
| NARS 110: Intro to Urban Community Horticulture (F) | HORT 301: Disease Management Strategies (F) |
| NARS 225: Scientific Presentation (S) | HORT 334: Plant Propagation (S) |
| NARS 487: Capstone (S) | HORT 400: Adv. Tech. Hort. Crop Improve. (S) |
| SLMG 200: Soil Science (S) | HORT 422: Integrated Pest Management (F) |
| SLMG 300: Fundamentals of Soil Health (F) | HORT 430: Plant Nutrition (S) |
| ABM 330: Applied Economics Agribusiness (S) | HORT 420: Vegetables for Small-scale Prod. (F) |
| AGRI 400: Sustainable Food Systems (F) | |

Required Courses for:

Land Systems

SLMG 350: Monitoring and Mgmt. Soil Health (S)
SLMG 400: Soil Eco and Enviro Microbiology (F)
SLMG 450: Sustainable Land-Use Systems (S)
BIOE 204: Principles of Land Surveying (F S)

Food Systems

HORT 350: Factors Affecting Sustain. Food (F)
HORT 351: Practice in Sustainable Food (S)
HORT 402: Grapes and Small Fruits (S)
HORT 410: Season Extension (F)

Sustainable Land and Food Systems Electives

AGRI 499: Undergraduate Research (F S)
ENVS 410: Sustainable Earth (S)
ENVS 344: Environmental Sustainability (F)
BIOE 114: Home and Farm Maintenance (F)
BIOE 216: Geographic Info Systems (S)
MGMT 343: Entrepreneurship (FS)
NARS 250: Insects Man Environment (F)
HORT 403: Specialty Crops (S)

FCS 157: Intro to Human Nutrition (F/S)
FCS 455: Cultural Aspects of Food (FS)
FCS 245: Intro to Food Science (FS)
FCS 346: Food Safety and Sanitation (S)
ABM 440: Alternative Markets Local Food (S)
ABM 337: Intro Local Food Systems (F)
ABM 450: Agricultural Cooperatives (S)
ENVS 201: The Earth's Environment

MAJOR PROGRAM REQUIREMENTS

Students must earn a C or better in the following courses:

NARS 100	SLMG 300
NARS 110	HORT 334
HORT 210	HORT 400
NARS 225	NARS 487
SLMG 200	HORT 430
HORT 301	HORT 420
HORT 422	