

Effective 2020 - 2021

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
<b>Freshman Year: First Semester</b>		<b>Freshman Year: Second Semester</b>	
ENGL 100 <sup>1</sup>	3	ENGL 101 <sup>1</sup>	3
MATH 101	3	MATH 102	3
NARS 100 <sup>2</sup>	1	CHEM 103	3
NARS 110	3	Social Behavioral Science	3
African American Studies Elective <sup>4</sup>	3	Global Awareness Elective <sup>6</sup>	3
FRST 101 <sup>5</sup>	1	NARS 225:	1
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year: First Semester</b>		<b>Sophomore Year: Second Semester</b>	
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
<b>Semester Total</b>	<b>14</b>	Elective	3
		<b>Semester Total</b>	<b>16</b>
<b>Junior Year: First Semester</b>		<b>Junior Year: Second Semester</b>	
HORT 301	3	ABM 330	3
SLMG 300	3	HORT 334	3
Concentration Electives	9	HORT 400	3
<b>Semester Total</b>	<b>15</b>	Concentration Electives	6
		<b>Semester Total</b>	<b>15</b>
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
HORT 420	3	NARS 487	3
HORT 422	3	HORT 430	3
AGRI 400	3	Concentration Electives	9
Concentration Electives	6	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

Total Credit Hours: 120

**REQUIRED COURSES for Concentration**

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