



Department of Plant and Soil Sciences

Major: Environmental Science in Agricultural Systems (ESAS) - 123

Catalog year 2014

Freshman Year

Fall Semester (17 hours)			Spring Semester (17 hours)		
BIO 1134	Biology I	4	EN 1113	English Composition II	3
EN 1103	English Composition I	3	MA 1323	Trigonometry OR	3
PSS 1313	Plant Science	3	ST 3123	Intro to Stat Inference	
MA 1313	College Algebra	3	BIO 1144	Biology II	4
CH 1213	Chemistry I	3	CH 1223	Chemistry II	3
CH 1211	Invest in Chem I	1	CH 1221	Invest in Chem II	1
			CO 1003	Fund of Public Speak OR	3
			CO 1013	Intr Communications	
		17			17

Sophomore Year

Fall Semester (14 hours)			Spring Semester (16 hours)		
PSS 3301	Soils Lab	1	FLS 1123	Spanish II	3
PSS 3303	Soils	3	<i>CH 2501</i>	<i>Elem Organic Chem Lab</i>	1
FLS 1113	Spanish I	3	<i>CH 2503</i>	<i>Elementary Organic Chem</i>	3
ADS 1121	Animal Science Lab	1	<i>ENS 2103</i>	<i>Intro to Environmental Sci</i>	3
ADS 1113	Animal Science	3	AELC 4203	Appl Comptr Tech AELC OR	3
_____	Fine Art Elective	3	AEC 1223	Comptr Appl ALS	
			_____	Soil Science Elective	3
		14			16

Summer

10 Week Term		
PSS 3423	Agronomy Internship OR	3
PSS 3433	Horticulture Internship	

Junior Year

Fall Semester (16 hours)			Spring Semester (12 hours)		
GG 1111	Surv Earth Science Lab	1	PH 1113	General Physics	3
GG 1113	Survey of Earth Science	3	AELC 3203	Prof Writ ANRH Sci	3
GG 3613	Water Resources	3	BIO 3304	General Microbiology	4
_____	Pest Mgt Elective	3	AEC 2713	Intro Food Res Econ OR	3
_____	Env & Society Elective	3	EC 2113	Prin Macroeconomics OR	
_____	Social Science Elective	3	EC 2123	Prin Microeconomics	
		16			13

Senior Year

Fall Semester (12 hours)			Spring Semester (15 hours)		
BIO 2503	Environmental Quality	3	<i>BIO 4214</i>	<i>General Plant Physiol OR</i>	3
PO 3103	Genetics	3	<i>PSS 4113</i>	<i>Agri Crop Physiology</i>	
_____	Agriculture System Elective	3	_____	Landscape&Society Elec	3
_____	Restricted Elective	3	_____	Biology/Ecology Elect	3
			_____	Environ Science Tech Elec	3
			_____	Agriculture System Elective	3
		12			15

◆◆ Courses printed in italic are taught only in the Fall or Spring semester, as listed. ◆◆
 Students are required to make a "C" or better in all required PSS courses
 ¥ Env. Sci. in Ag. Systems Agriculture and Restricted Electives (See listing on back.)

Environmental Science in Agricultural Systems

Agriculture Systems Elective (6 hours)

ADS 3223	<i>Horse Management</i>
ADS 3312	Livestock Management
ADS 4113	Swine Science
ADS 4222	Small Ruminant Production
ADS 4324	Beef Cattle Production
ADS 4814	Dairy Farm Management
PSS 3043	Fruit Science
PSS 4103	Forage and Pasture Crops
PSS 4123	Grain Crops
PSS 4133	Fiber and Oilseed Crops
PSS 4143	Advanced Fruit Science
PSS 4223	Seed Production
PSS 4341	Control Environment Ag Lab
PSS 4343	Control Environment Ag
PSS 4363	Sustainable Nursery Production
PSS 4373	Geospatial Agronomic Mgmt
PSS 4413	Turf Management
PSS 4423	Golf Operations
PSS 4443	Athletic Field Management
PSS 4453	Vegetable Production
PSS 4613	Floriculture Crop Programing

RESTRICTED ELECTIVES (21 Hours)

Soil Science Electives (Choose at least ONE)

PSS 4313	Soil Fertility
PSS 4323	Soil Classification
PSS 4333	Soil Conservation and Land Use
PSS 4314	Microbiology Ecology of Soil
PSS 4603	Soil Chemistry

Environ. & Soc. Elect. (Choose at least ONE)

ACC 2013	Princ of Financial Accounting
AEC 3133	Intro Agribusiness Mgt
AEC 3233	Intro Environ Econ Policy
AEC 4413	Public Problems in Agriculture
AEC 4243	Natural Resources Economics
BL 4263	Environmental Law
FO 4353	Natural Resources Law
PS 1113	American Government
PS 2703	Intro to Public Policy
PS 4743	Environmental Policy

Pest Mgmt Elect. (Choose at least ONE)

EPP 2213	Intro to Insects
EPP 2423	Ornamental Turf Insects
EPP 4113	Principles Of Plant Pathology
EPP 4163	Plant Disease Management
PSS 3133	Intro to Weed Science
PSS 4633	Weed Biology and Ecology
PSS 4813	Herbicide Technology
PSS 4823	Turfgrass Weed Management

Environ. Sci. Tech Elect. (Choose at least ONE)

GR 2313	Maps and Remote Sensing
GR 3113	Conservation of Natural Resources
GR 4303	Principles of GIS
GR 4313	Advanced GIS
PSS 4373	Geospatial Agronomic Mgmt

Landscape & Soc. Elect. (Choose at least ONE)

LA 4753	Sustainable Landscape Management
LA 4844	Sustainable Communities
PSS 3633	Sustainable & Organic Horticulture
PSS 4353	Arboriculture and Landscape Mainten
PSS 4043	International Horticulture

Biology/Ecology Elect. (Choose at least ONE)

BIO 2113	Plant Biology
BIO 3104	Ecology
BIO 4203	Taxonomy of Spermatophytes
BIO 4213	Plant Ecology
BIO 4404	Environmental Microbiology
PSS 4553	Plant Growth and Development

Additional Restricted Electives

ABE 4313	Biol Trt Non Point Source Pollut
ABE 2873	Land Surveying
ABE 4263	Soil & Water Management
BCH 4013	Principles of Biochemistry
CH 2311	Analytical Chemistry Lab
CH 2313	Analytical Chemistry
GR 1603	Introduction to Meterorology
PSS 2423	Plant Materials I
PSS 3473	Plant Materials II
PSS 3923	Plant Propagation
PSS 4503	Plant Breeding
PSS 4000	Directed Individual Study