

**AGRICULTURAL &
ENVIRONMENTAL
SOIL SCIENCES**



**DEPARTMENT OF
PLANT AND
SOIL SCIENCES**

Major Advisors: Professors: Dr. Jac Varco, William Kingery and Michael Cox

The Agricultural and Environmental Soil Sciences curriculum provides and education foundation in soil processes involving physical, chemical and biological interrelationships. The soil resource is an integral component of our environment and is subject to loss and degradation through man's activities. Humanity's dependence on soil and food for food and fiber production and the need for ensuring environmental quality requires individuals trained in the management of this resource. Career opportunities exist both nationally and internationally in agricultural and environmental consulting, agribusiness, government agencies, teaching, and research. Required courses provide soil science training, while elective courses can be selected to meet specific needs.

Cooperative Education: Agricultural and Environmental Soil Sciences students are encouraged to participate in the cooperative education program.

1st Year	
First Semester	Second Semester
EN 1103 English Comp I	EN 1113 English Comp II
MA 1313 College Algebra	MA 1323 Trigonometry
BIO 2113 Plant Biology	CH 1223 Chemistry II
CH 1213 Chemistry I	CH 1221 Invst. In Chemistry II
CH 1211 Invst. In Chemistry I	GR 1123 Intr. World Geography
3 Hours Computer Literacy Elective	AEC 2713 Intr. Food & Resource Economics
3 Hours Humanities Elective	3 Hours Fine Arts Elective
19 Hours	19 Hours
	Total Hours 38

Summer 1	
1st Term	2nd Term
CO 1003 Fund. of Public Speaking	3 Hours Social Science Elective
GG 1111 Survey of Earth Science Lab	3 Hours Humanities Elective
GG 1113 Survey of Earth Science I	
7 Hours	6 Hours
	Total Hours 51

2nd Year	
First Semester	Second Semester
PSS 3303 Soils	MA 1713 Calculus I
PSS 3301 Soils Laboratory	PH 1123 General Physics II
CH 2313 Analytical Chemistry I	BIO 3304 General Microbiology
CH 2311 Analytical Chemistry I Lab	PSS 4313 Soil Fertility
PH 1113 General Physics I	3 Hours Restricted Electives
3 Hours Restricted Electives	
3 Hours Restricted Electives	
17 Hours	16 Hours
	Total Hours 84

Summer 2

1st Term	2nd Term
AIS 3203 Intr. Technical Writing In Agricommm.	3 Hours Restricted Electives
	3 Hours
	Total Hours 90

3rd Year

First Semester	Second Semester
PSS 4323 Soil Classification	ST 3113 Intr. Statistical Inference
CH 4513 Organic Chemistry I	PSS 4314 Soil Microbiology
BIO 4214 Gen. Plant Physiology	4 Hours Restricted Electives
PSS 4603 Soil Chemistry	CH 4523 Organic Chemistry II
PSS 4333 Soil Conservation and Land Use	3 Hours Restricted Electives
16 Hours	17 Hours
	Total Hours 123

PSS Restricted Electives (A minimum of 19 hours is required)

ABE 4263 Soil and Water Management	GG 3613 Water Resources
ADS 1114 Animal Science	GG 4114 Mineralogy
AEC 3133 Intr. Agribusiness Management	GG 4303 Prin. Of Sediment Dep. I
BCH 4013 Prin Biochemistry	GG 4503 Geomorphology
BCH 4414 Protein Methods	GR 2313 Maps and Remote Sensing
BIO 4213 Plant Ecology	GR 3113 Conservation of Natural Resources
BIO 4404 Environmental Microbiology	GR 4603 Climatology
CH 3213 Inorganic Chemistry	MA 1723 Calculus II
CH 4203 Environmental Chemistry	PSS 1313 Plant Science
CH 4404 Biophysical Chemistry	PSS 3133 Int Weed Science
CH 4413 Physical Chemistry I	PSS 4103 Forage and Pasture Crops
EPP 2213 Int to Insects	PSS 4123 Grain Crops
EPP 4113 Prin Plant Pathology	PSS 4133 Fiber and Oilseed Crops
FO 3123 Forest Ecology and Global Env.	PSS 4223 Seed Production
GG 3133 Intr Environmental Geology	PSS 4414 Turf Management