

**DEPARTMENT OF SOIL AND CROP SCIENCES**  
**Concentration: Environmental Soil Science**

Name \_\_\_\_\_ Telephone \_\_\_\_\_  
 Local Address \_\_\_\_\_  
 Advisor \_\_\_\_\_ Graduation Term \_\_\_\_\_ Year \_\_\_\_\_  
 Degree Requirements: 120-122 credits, 42 upper division, 27 Soil and Crop Sciences

**FRESHMAN YEAR**

<u>Semesters Offered</u>		<u>Credits</u>
F	___ AGRI 192 Orient. To Ag. Syst	1
F S SS	___ CHEM 111 Gen Chem I	4
F S SS	___ CHEM 112 Gen Chem I Lab	1
F S SS	___ CHEM 113 Gen Chem II	3
F S SS	___ CHEM 114 Gen Chem II Lab	1
F S SS	___ CO 150 College Composition	3
F S	___ AREC/ECON 240 Issues in Environmental Economics	3
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F S	___ FSHN 125 Food & Nutri. in Health OR	2
F S SS	___ FSHN 150 Survey of Human Nutri.	3
.....		
F S SS	___ LIFE 102 Att of Liv Systems	4
F S SS	___ MATH 141 Calculus Mgmt. Sci	3
F S	___ SOCR 240 Intro Soil Science	4
F S SS	___ Arts and Humanities <sup>1</sup>	3
	Total	32-33

**JUNIOR YEAR**

<u>Semesters Offered</u>		<u>Credits</u>
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<i>Select one of the following two groups:</i>		
F S SS	___ CHEM 245,246 Fund. Of Org. Chem., Lab	5
<b>or</b>		
F S	___ CHEM 345, 346 Org. Chem I, II	8
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S	___ CHEM 331 Quant Analysis	3
F S	___ CHEM 334 Quant. Analysis, Lab	1
F S	___ JTC 300 Prof. & Tech. Writing	3
F S SS	___ MIP 300 Gen. Microbiology	3
F	___ SOCR 440 Pedology	4
S	___ SOCR 467 Soil & Enviro. Chemistry	3
F S SS	___ Historical Perspectives <sup>3</sup>	3
F S SS	___ Social/Behavioral Science <sup>4</sup>	3
	___ Technical electives <sup>5</sup>	4
	Total	32-35

**SOPHOMORE YEAR**

<u>Semesters Offered</u>		<u>Credits</u>
F S	___ LIFE/LAND 220 Fund. of Ecology	3
F S	___ GEOL 120 Exploring Earth: Physical Geology	3
F S SS	___ GEOL 121 Intro Geology Lab	1
F S SS	___ MATH 125 Numerical Trig	1
F S SS	___ PH 121 General Physics I	5
F S	___ PH 122 General Physics II	5
F	___ SOCR 350 Soil Fert. Mgmt	3
F	___ SOCR 351 Soil Fert. Mgmt. Lab	1
F S SS	___ SPCM 200 Public Speaking	3
.....		
<i>Select one course from the following:</i>		
F S SS	___ STAT 201 General Statistics	3
F S SS	___ STAT 301 Intro to Statis Meth	3
F S	___ STAT/ERHS 307 Intro to Biostats	3
.....		
	___ Global & Cultural Awareness <sup>2</sup>	3
	Total	31

**SENIOR YEAR**

<u>Semesters Offered</u>		<u>Credits</u>
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<i>Select one of the following two courses:</i>		
F S SS	___ BC 351 Principles of Biochem	4
<b>or</b>		
S	___ BZ 440 Plant Physiology	3
.....		
F	___ SOCR 455 Soil Microbiology	3
F	___ SOCR 456 Soil Microbiology Lab	1
F	___ SOCR 470 Soil Physics	3
F	___ SOCR 471 Soil Physics Lab	1
.....		
S	___ SOCR 478 Env. Soil Sci	3
S	___ SOCR 479 Env. Soil Sci. Lab	1
<b>or</b>		
F	___ SOCR 421 Crop & Soil Mgmt.Sys.II	4
.....		
F	___ SOCR 492 Seminar	1
F S SS	___ Arts & Humanities <sup>1</sup>	3
	___ Technical Electives <sup>5</sup>	3
	___ Electives	0-3
	Total	23-25

<sup>1</sup> Select from list of courses in category 3B in the All-University Core Curriculum (AUCC).

<sup>2</sup> Select from list of courses in category 3E in the AUCC.

<sup>3</sup> Select from list of courses in category 3D in the AUCC.

<sup>4</sup> Select from list of courses in category 3C in the AUCC.

<sup>5</sup> Select from departmental list.

MATH 117 and MATH 118 are considered review courses; credits in these courses may not be used toward a degree in the Environmental Soil Science Concentration in the major in the Soil and Crop Sciences.

An introductory computer course such as AGRI 140 is considered a review course: Previous background in computers is expected. If a computer course is needed, AGRI 140 must be taken as an elective.

### **Technical Electives List**

				<u>Credits</u>	
F	SS	BZ	223	Plant Identification	3
S		BZ	355	Ecology of Landscapes	3
F	S	BZ	440	Plant Physiology	3
F		ERHS	446	Environmental Toxicology	3
F	S	WR	304	Principles of Watershed Mgmt	3
F		WR	416	Land Use Hydrology	3
S		WR	418	Land Use and Water Quality	3
F		NR	322	Introduction Geographical Information Systems	3
F		NR	323	Remote Sensing of Natural Resources	3
F	S	ERHS	400	Radioisotope Techniques	3
S		ERHS	461	Radiation Public Health	2
S		RS	478	Restoration Ecology	3
F	S	MIP	302	General Microbiology Lab	2
S		MIP	432	Microbial Ecology	3
S		MIP	433	Microbial Ecology Lab	1

### **Additional Communication Suggested Electives**

<b>Writing</b>		<b>Speaking</b>	
CO 300	Writing Arguments	SPCM 232	Group Communication
CO 301	Writing in the Discipline	SPCM 207	Rhetoric and Argumentation
E 210	Beginning Creative Writing	SPCM 303	Business and Professional Speaking
JTC200	Professional Writing		
JTC301	Business Communications		