

Environmental Studies Advising Grid - CORE CURRICULUM

ESS

New Curriculum as of Fall 2006 – updated Fall 2014

Name: _____

Date _____

Course #	Course	Units	Semester Taken	Grade	Instructor
MAJOR CORE: All required (21 units)					
ENVS 300	Introduction to Environmental Studies (FS)	3			
CHEM 115*	Gen Chemistry I: Essential Concepts (placement exam) (FS)	5			
ENVS/CHEM 380*	Chemistry Behind Environmental Pollution (FS)	3			
ENVS 450 GW*	Environmental Law and Policy (FS)	3			
ENVS/GEOG 600*	Environmental Problems & Solutions (E) (III)	3			
ENVS 680*	Internship (FS)	1-3			
ENVS 690*	Senior Seminar (FS)	3			
Major Core units taken:					
MAJOR ELECTIVES: Select one from each category (15-24 units)					
<i>Physical Environment</i>					
GEOG 101 ^{II}	Our Physical Environment (E)	3			
GEOL 270 ^{II}	Environmental Geology (F)	3			
<i>Human Environment</i>					
GEOG 102 ^{II}	The Human Environment (E)	3			
ANTH 120 ^{II}	Intro to Social & Cultural Anthropology (E)	3			
ENVS/ECON 306	Economics and the Environment (S)	3			
<i>Environmental Justice/Urban Issues</i>					
ANTH 321	Endangered Cultures (S+) (III)	3			
USP 514	Sustainable Development in Cities (F) (III)	4			
USP 515/GEOG 667	Race, Poverty, and the Environment (S) (III)	4			
<i>Ecology</i>					
(BIOL 230* and BIOL 240*) or BIOL 313*	(Introductory Biology I (placement exam) (E) and Introductory Biology II(E)) or Principles of Ecology (E) (III)	5 5 3			
<i>Human Values and Environmental Ethics</i>					
BECA 502	Env. Communication on the Electronic Media (F) (III)	3			
ENG 535*	Literature and Ecology (R)	3			
PHIL 470	Environmental Ethics (F) (III)	3			
PLSI 354*	Politics, the Environment, and Social Change (F) (III)	4			
Major Electives units taken:					
Total for core: 36-45					

GE Segment III Courses: _____

Note: only two of three can also be used to satisfy your major requirements

ENVS 300 is a prerequisite for ENVS 450, 680 and 690. ENG 214 is a prerequisite for ENVS 450. Majors must pass both ENVS 300 and 450 with a grade of C or better.*

* = Prerequisite, or consent of instructor, III = segment 3

F = Fall, S = Spring, + = Plus other semesters occasionally, E = Every Semester (FS and Summer),

R = rare, if ever, ? = Don't know. *Semester availability is subject to change without warning.*

II = GE Segment II

NOTE: Course, **NOT UNITS**, can be double counted between core & concentration.

*****availability of classes may be different than indicated here*****

Environmental Studies Advising Grid - EARTH SYSTEM SCIENCE

CONCENTRATION CORE: 22-23 units		Units	Semester	Grade	Instructor
CHEM 215*	General Chemistry II (E) or other Chemistry class (see advisor)	3			
GEOG/USP 652* or GEOL 110	Environmental Impact Analysis (F) or Physical Geology	4 4			
MATH 226*	Calculus I (E)	4			
MATH 227* or MATH 124* or BIOL 458*	Calculus II (E) or Elementary Statistics (E) or Biometry	4 3 4			
PHYS 111/112*	General Physics I/Lab. (E)	3/1			
PHYS 121/122*	General Physics II/Lab (E)	3/1			
Concentration Core units taken:					
EMPHASIS ELECTIVES: (upon advisement) 16-22 units					
<i>Chemical Analysis</i>		18			
CHEM 216*	General Chemistry II Laboratory (E)	2			
CHEM 321*	Quantitative Chemical Analysis (FS) (formerly CHEM 320)	3			
CHEM 233/234*	Organic Chemistry I/Laboratory (E) (formerly CHEM 333/334)	3/2			
CHEM 420* or ENGR 434* or GEOL 476*	Environmental Analysis (R) or Principles of Environmental Engineering or Groundwater Contamination	3 3 3			
CHEM 422*	Instrumental Analysis	4			
<i>Climate System</i>		18-20			
GEOG 610* or METR 415* or METR/OCN 470/ GEOG 607*	Remote Sensing I (S) or Remote Sensing of the Atmosphere & Ocean (R) (was METR 490) or Meteorological & Oceanic Observing Techniques & Systems (was METR 404)	4 3 2			
GEOG 312* or GEOL 450*	Geography of Landforms (F) or Geomorphology (R)	4 4			
GEOG 313* or GEOL/METR/OCN 405	Earth's Climate System or Planetary Climate Change (was GEOL 310)	4 4			
OCN 200*	Physical Processes in the Ocean (?)	3			
METR 201*	Physical Processes in the Atmosphere	3			
GEOG 314*	Bioclimatology	4			
ENVS 470	Climate Politics & Policy	3			
<i>Coastal Systems</i>		16-18			
BIOL 534* or BIOL 585*	Wetland Ecology or Marine Ecology (R)	4 3			
GEOG 610* or METR 415*	Remote Sensing I (S) or Remote Sensing of the Atmosphere & Ocean (R) (was METR 490)	4 3			
OCN 200*	Physical Processes in the Ocean	3			
GEOL 452* or OCN 420*	Coastal Processes (R) or Physical Oceanography (was GEOL 465)	3 3			
GEOG 313* or GEOL/METR/OCN 405	Earth's Climate System or Planetary Climate Change (was GEOL 310)	4 4			
<i>Hydrologic System</i>		18			
CHEM 216*	General Chemistry II Laboratory (E)	2			
GEOG 647*	Geography of Water Resources (S)	4			
GEOL 450* or GEOG 312* or GEOG/GEOL 642*	Geomorphology (R) Geography of Landforms (F) Watershed Assessment and Restoration (S)	4 4 4			
GEOL 475 *	Hydrogeology (F)	4			
GEOG 313* or GEOL/METR/OCN 405	Earth's Climate System or Planetary Climate Change (was GEOL 310)	4 4			
<i>Surficial Processes</i>		18-19			
GEOG 312* or GEOL 450*	Geography of Landforms or Geomorphology	4 4			
GEOG 317 or GEOL 454*	Geography of Soils or Quaternary Climate and Soils	4 3			
GEOG 603*	Introduction to GIS	3			
GEOG 621*	GIS for Environmental Analysis	4			
GEOG/GEOL 642*	Watershed Assessment and Restoration	4			
Concentration Elective units taken:					
Total for Concentration: 38-43					
Total for Major: 74-90					

