



ADVISING SHEET: ENVIRONMENTAL SCIENCE (B.S.)

Name:

Student ID:

Email:

Advisor:

On this page, the required (core) courses for ES are listed. Check off the details as you proceed through the major. On the back side, fill in the elective tables with courses that fulfill each distribution requirement. The course that apply are listed under each table. Check in with an ES advisor regularly and when you do, bring this sheet to update.

Environmental Science major (66-68 units)

Lower Division Requirements (27 units)

Course (units)	Semester taken, indicate from where if not SFSU	Grade
GEOG 101 Our Physical Environment (3)		
GEOG 102 The Human Environment (3)		
GEOG 160 Intro to Environmental Sci. (4)		
GEOG 205 Geographic Techniques (3)		
MATH 226 Calculus I (4)		
CHEM 180 Chem. for Energy & Environ. (3)		
BIOL 150 <b>or</b> 170 <b>or</b> 313 * (3)		
PHYS 111 and 112 <b>or</b> 220 and 222 ** (4)		

\* BIOL 150 The World of Plants, BIOL 170 Animal Diversity, BIOL 313 Principles of Ecology

\*\* PHYS 111 and 112 General Physics I & lab or PHYS 220 and 222 General Physics with Calculus I & lab

Upper Division Requirements (9 units)

Course (units)	Semester taken and Instructor?	Grade
GEOG 500 Physical and Human Dimensions of Climate Change – GVAR (3)		
GEOG 603 Intro to Geographic Information Systems (3)		
GEOG 690 Senior Seminar in Geography & Environmental Science (3)		

ADVISING SHEET: ENVIRONMENTAL SCIENCE (B.S.) CONT.

Upper Division Electives (30-32 units)

Environmental Science distribution (11-12 units total from list below)

Course (units)	Semester taken and instructor?	Grade

CHEM 380 Chemistry Behind Environ. Pollution (3), GEOG 342/ERTH 442 Surface Water Hydrology (4), GEOG 312 Geography of Landforms (4), GEOG 313 Earth's Climate System (4), GEOG 314 Bioclimatology (4), GEOG 316 Biogeography (4), GEOG 317 Geography of Soils (4), GEOG 644 Water Quality (3)

Environmental Management Electives (11 -12 units total from the list below)

Course	Semester taken and instructor?	Grade

GEOG 421 Future Environments (3), GEOG 427 Agriculture and Food Supply (4), GEOG 642 Watershed Assessment and Restoration (4), GEOG 646 The Geography of Marine Resources (4), GEOG 647 Geography of Water Resources (4), GEOG 648 Management of National Parks and Protected Areas (4), GEOG 652 Environmental Impact Analysis (4), GEOG 657 Natural Resource Management: Biotic Resources (4) GEOG 666 Geography of Garbage: Recycling and Waste Reduction (3)

Geographic techniques (7-8 units total from the list below)

Course	Semester taken and instructor?	Grade

BIOL 458 Biometry (4), GEOG 602 Field Methods in Physical Geography (4), GEOG 604 Environmental Data Science (3), GEOG 610 Remote Sensing of the Environment I (4), GEOG 611 Remote Sensing of the Environment II (4), GEOG 620 Geographical Information Systems (4), GEOG 621 Geographic Information Systems for Environmental Analysis (4), GEOG 625 Programming for Geographic Information Science (4), GEOG 629 Coastal & Marine Applications of GIS