



Geography- Environmental and Resource Management Emphasis, BA

2011-2012

What Is the Study of Geography?

This interdisciplinary program prepares students to enter professional fields concerned with the spatial aspects of the human and natural environment. Environmental and Resource Management prepares students for a future of working with resources and the environment locally, nationally and internationally. A minor in Geographic Information Systems, Geology or an additional language are commonly completed by Geography students.

Graduates of this major have assumed positions in State and National Parks, Forest Service, non-profit organizations, and GIS positions for public and private agencies. Western also offers a Masters in Science in Geography. If you are interested in teaching Geography in public schools, see the B.A. Geography/Social Studies or B.A.Ed. Geography/Elementary Education information sheet.

Why Should I Consider an Environmental and Resource Management Emphasis in the Geography Major?

Are you curious about the world, and its physical and human dimensions? Do you love maps? Are you comfortable with spatial problem solving? If so, then Geography is the major for you.

How to Declare:

Pre-Major: Any student may declare as an Environmental Studies pre-major. The forms are available at the Huxley College Office in ES 539.

Admissions: Admission to Huxley College and its majors is selective and based upon the following four criteria:

1. Completion of required preparatory course work
2. A brief essay in response to a given question
3. Relevant experience.
4. Academic performance (GPA)

Preparatory Courses (40-46 credits)

- CHEM 121 - GENERAL CHEMISTRY I
 - ECON 206 - INTRODUCTION TO MICROECONOMICS
 - EGEO 201 - HUMAN GEOGRAPHY
 - EGEO 203 - PHYSICAL GEOGRAPHY
 - Any BCOM or CCOM GUR requirement course
 - Any PLSC course
 - Additional Lab Science course in BIOL, CHEM, GEOL or PHYS
- One course from:
 - BIOL 101 - INTRODUCTION TO BIOLOGY
 - BIOL 204 - INTRODUCTION TO EVOLUTION, ECOLOGY AND BIODIVERSITY
 - One course from:
 - MATH 114 - PRECALCULUS I
 - MATH 156 - ALGEBRA WITH APPLICATIONS TO BUSINESS AND ECONOMICS

Application deadlines: Applications should be received by the Huxley College office by April 25 for admission to summer or fall quarters; October 6 for admission winter quarter; and January 15 for admission spring quarter.

Advising Tips: Prospective environmental studies majors are encouraged to meet with departmental advisor, Kathryn Patrick, to explore their environmental studies interest and develop a plan of study.

Contact Information:

Department Website:

<http://www.wwu.edu/huxley/>

Undergraduate Advisor:

Kathryn Patrick
ES 539, 360-650-3520
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Department Chair:

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Faculty Advisors

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Sample Careers:

Cartographer
Resource Manager
GIS Database Manager
Water Resource Manager
Park Ranger
Forest Service Employee
College or University Instructor

Major/Career Resources:

http://www.careers.wwu.edu/students_choosingamajor.shtml

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(125-131 credits)

Students are advised to see the department for GPA requirements within the major.

Preparatory Courses (40-46 credits)

- CHEM 121 - GENERAL CHEMISTRY I
- ECON 206 - INTRODUCTION TO MICROECONOMICS
- EGEO 201 - HUMAN GEOGRAPHY
- EGEO 203 - PHYSICAL GEOGRAPHY

- One course from:
BIOL 101 - INTRODUCTION TO BIOLOGY
BIOL 204 - INTRODUCTION TO EVOLUTION, ECOLOGY AND BIODIVERSITY

- One course from:
MATH 114 - PRECALCULUS I
MATH 156 - ALGEBRA WITH APPLICATIONS TO BUSINESS AND ECONOMICS

- One Introductory Statistics course from:
ANTH 335 - QUANTITATIVE METHODS IN ANTHROPOLOGY
DSCI 205 - BUSINESS STATISTICS
FAIR 232P - USER-FRIENDLY STATISTICS
MATH 240 - INTRODUCTION TO STATISTICS
SOC 215 - SOCIAL STATISTICS

Major (85 credits)

- EGEO 301 - RESEARCH AND WRITING
- EGEO 305 - ANALYSIS OF SPATIAL DATA
- EGEO 351 - MAP READING AND ANALYSIS
- EGEO 352 - COMPUTER CARTOGRAPHY

- One course from:
EGEO 320 - THE UNITED STATES: SOCIETY & ENVIRONMENT
EGEO 321 - AFRICA: SOCIETY AND ENVIRONMENT
EGEO 322 - THE MIDDLE EAST: SOCIETY AND ENVIRONMENT
EGEO 323 - SOUTH ASIA: SOCIETY AND ENVIRONMENT
EGEO 324 - EAST ASIA: SOCIETY AND ENVIRONMENT
EGEO 327 - THE PACIFIC NORTHWEST: SOCIETY AND ENVIRONMENT
EGEO 328 - CANADA: SOCIETY AND ENVIRONMENT

- One course from:
EGEO 350 - INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
EGEO 450 - INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS
EGEO 451 - GIS DATABASES
EGEO 452 - ADVANCED GIS
EGEO 453 - GIS PROCESSING AND ANALYSIS
ESTU 401 - APPLICATIONS IN GIS

- One course from:
ESCI 302 - ENVIRONMENTAL POLLUTION
ESCI 310 - ENVIRONMENTAL SYSTEMS
ESCI 325 - FUNDAMENTALS OF ECOLOGY
ESCI 392 - INTRODUCTION TO GLOBAL CHANGE

Other Geography Options

Geography Minor
Geography- Elementary, BAE
Geography/Social Studies, BA

Major Continued

- One course from:
ESCI 309 - EXPLORING ENVIRONMENTAL DATA
ESCI 321 - OCEANOGRAPHY
ESCI 330 - NATURAL HISTORY OF THE PACIFIC NORTHWEST
ESCI 333 - INTRODUCTION TO ENVIRONMENTAL TOXICOLOGY
ESCI 361 - WATER QUALITY
ESCI 463 - WETLANDS FOR WASTEWATER TREATMENT

- One course from:
ESCI 436 - ENVIRONMENTAL IMPACT ASSESSMENT
ESCI 470 - ECOLOGICAL RESTORATION
ESCI 490 - ENVIRONMENTAL RISK ASSESSMENT
ESCI 491 - OCEANOGRAPHY OF PUGET SOUND
ESTU 436 - ENVIRONMENTAL IMPACT ASSESSMENT
ESTU 470 - PLANNING STUDIO
ESTU 496 - ENVIRONMENTAL STEWARDSHIP

- One course from: (minimum 10 credits)
ESTU 498A - SENIOR THESIS
ESTU 498B - INTERNSHIP
ESTU 498C - SENIOR PROJECT
ESTU 498D - FOREIGN STUDY

- Five courses from:
EGEO 330 - GEOGRAPHY OF LANDFORMS
EGEO 331 - CLIMATOLOGY
EGEO 332 - THE SOIL ENVIRONMENT
EGEO 362 - LAND RESOURCE ANALYSIS
EGEO 363 - NATURAL HAZARDS PLANNING
EGEO 431 - WATER RESOURCES
EGEO 432 - SOIL LANDSCAPES
EGEO 433 - CLIMATE AND BIOPHYSICAL PROCESSES
EGEO 434 - BIOGEOGRAPHY
EGEO 461 - SOCIETY, SPACE, AND NATURAL RESOURCES
ESCI 492 - CLIMATE CHANGE

- 30-37 elective credits under advisement from the following:
ANTH 300- and 400-level
EGEO 300- and 400-level
ESCI 300- and 400-level
ESTU 300- and 400-level
GEOL 300- and 400-level
PHYS 300- and 400-level
MATH 124 - CALCULUS AND ANALYTIC GEOMETRY I
MATH 125 - CALCULUS AND ANALYTIC GEOMETRY II

General University Requirements (GUR):

The courses below are offered within this major and may also be used to satisfy GUR or Writing Proficiency Requirements.

QSR: ANTH 335; MATH 114, 124, 125, 156, 240; SOC 215

SSC: ECON 206; EGEO 201

ACGM: EGEO 321, 322, 323, 324

LSCI: BIOL 101, 204; CHEM 121; EGEO 203

WP: Three Writing Proficiency points are required for graduation (noted as WP1,2 and 3). Check *Classfinder* or *Online Timetable* for departmental offerings each quarter.

Academic Advising Center, a unit of Academic and Career Development Services
Old Main 380 360.650.3850 advising@wwu.edu

This document has been created for advising purposes only. Please contact the appropriate department for updates and changes.