

RESOURCE AND ENVIRONMENTAL STUDIES MAJOR

**Bachelor of Science Degree
Texas State University
Geography Advising Services**



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For all faculty office locations, phone numbers, e-mail addresses, and office hours, as well as information about Geography Department people, programs, courses and activities, check the Texas State Geography Web Site at www.geo.txstate.edu and Bulletin Boards on ELA 1st and 3rd floors.

Major Description

The Resource and Environmental Studies concentration prepares students for a wide variety of government and private sector occupations relating to resource conservation and/or environmental management. Graduates pursue careers with employers such as the Texas General Land Office, the Texas Commission on Environmental Quality (TCEQ), the Texas Department of Transportation, Texas Parks and Wildlife, the National Geographic Society, the Lower Colorado River Authority, the San Antonio Water System, Motorola, Valero Energy and various private - sector environmental consulting firms. Check <http://www.geo.txstate.edu> for more information.

Pre-Major Requirements

Students who meet the university admission requirements enter the Department of Geography's undergraduate program as pre-majors. To become a major in geography, students must:

1. Complete GEO 1309 and/or GEO 1310, GEO 2410 & GEO 3301 with a minimum grade of C for each course.
2. Complete 45 or more credit hours with an overall minimum GPA of 2.5 for all courses.

Degree/Major Requirements

1. Students majoring in Resource and Environmental Studies complete the Bachelor of Science (B.S.) degree.
2. The B.S. degree requires a minimum of 36 semester hours of geography with:
 - a) at least a 2.5 GPA for all geography courses attempted at Texas State University and
 - b) at least a 2.25 GPA for all courses taken at Texas State University.
3. The degree requires a minor area of study with a minimum of 18 semester hours.
4. Texas State requires a minimum of 128 semester hours of coursework to graduate including:
 - a) General Education Core requirements; b) major requirements; c) minor requirements; and
 - d) Additional elective courses selected from disciplines other than major or minor.
5. At least 39 semester hours must be advanced (3000 - 4000) level courses.
6. At least 9 semester hours must be writing intensive (WI).

Minor Requirements

Minor may be any approved Texas State minor. Biology, Chemistry, Geology, Anthropology, Computer Science Mathematics, Plant and Soil Science or Physics minors are highly recommended to complement your Resource and Environmental Studies Major. Other minors may be appropriate depending upon your interests and career goals. Discuss possible options with your advisor.

Optional Certificates

Geographic Information System (GIS) - The GIS Certificate requires completion of 16 hours:

GEO 2426 & (Choose one: GEO 2427 or GEO 3411 or GEO 3416) & GEO 4426 & GEO 4427 with a minimum grade of C for each course and an overall minimum GPA of 2.5 for all four courses. Additional course work beyond minimum degree/major requirements may be required for the certificate.

Water Resources Policy - The Water Resources Policy Certificate requires completion of 13 hours: GEO 3434, GEO 4313, GEO 4314 and GEO 4341 with a minimum grade of C for each course and an overall minimum GPA of 2.5 for all four courses. Additional course work beyond minimum degree/major requirements may be required for the certificate.

RESOURCE AND ENVIRONMENTAL STUDIES MAJOR COURSE CHECKLIST

This checklist provides general guidelines only.

Refer to your catalog or consult with an academic advisor for degree requirement details.

Bachelor of Science: 36 Semester Hours Minimum

REQUIRED:

- _____ 1309 Introduction to Cultural Geography **and/or** 1310 World Geography
and
_____ 2410 Introduction to Physical Geography (Prerequisite: Math 1315)
and
_____ 3301 Quantitative Methods (Prerequisite: Math 1315)

RECOMMENDED PRE-CORE ELECTIVES: These courses provide useful preparation for the program core requirements and count towards the 36 semester hour requirement (0-9 hours)

- _____ 2310 Introduction to Environmental Geography
_____ 3305 Applied Meteorology and Climatology (Prerequisite: GEO 2410 or equivalent)
_____ 3313 Natural Resource Use and Planning

CORE: You must select **at least three** of the following courses (9-13 hours):

- _____ 3434 Water Resources (Prerequisite: GEO 2410)
_____ 4313 Environmental Management (Prerequisite: GEO 2410)
_____ 4338 Land Use Planning
_____ 4350 Solid Waste Planning and Management (Prerequisite: GEO 2410)

TECHNIQUES: You must select **at least one** of the following courses (more are recommended)

- _____ 2426 Fundamentals of Geographic Information Systems
_____ 3411 Maps and Mapmaking
_____ 3416 Principles of Remote Sensing
_____ 4430 Field Methods (Prerequisites: GEO 2410 and GEO 3301)

GEOGRAPHY ELECTIVES: Select from the following courses to complete semester hour requirements

- _____ 3134 Water Quality Monitoring (Prerequisite or Corequisite: GEO 3434)
_____ 3303 Economic Geography
_____ 3320 Community and Regional Planning
_____ 3321 Energy Resource Management
_____ 3325 Geomorphology (Prerequisite: GEO 2410)
_____ 3335 Oceanography (Prerequisite: GEO 2410)
_____ 3340 Political Geography
_____ 3349 Population Geography
_____ 4310 Regional Field Studies (check with advisor)
_____ 4314 River Basin Management (Prerequisite: GEO 2410)
_____ 4316 Landscape Biogeography (Prerequisite: GEO 2410)
_____ 4322 Interpretive Environmental Geography
_____ 4334 Groundwater Resources (Prerequisite: GEO 3434)
_____ 4339 Environmental Hazards (Prerequisite: GEO 2410)
_____ 4341 Water Policy (Prerequisite: GEO 3434 and GEO 4313)
_____ 4380 Internship in Geography (Strongly recommended, may be repeated once for additional credit)
_____ 4412 Digital Remote Sensing (Prerequisite: GEO 3416)

_____ Regional Geography Electives (One course may be selected as an approved elective):

GEO 3306 (American South), GEO 3307 (Europe), GEO 3308 (Latin America), GEO 3309 (US & Canada), GEO 3328 (N. Africa & Middle East)
GEO 3329 (Texas), GEO 3332 (S & SE Asia) GEO 3333 (China and Japan), GEO 4306 (Southwest US), GEO 4328 (Russian Realm)

Steps to Graduation

1. Consult with an academic advisor or geography faculty member.
2. Declare intention to major in Geography with Department Academic Advisor, ELA 130.
3. Declare minor with Geography Department Academic Advisor.
4. Attend Group Advising Sessions (scheduled prior to advanced registration fall and spring semesters) and/or consult with major concentration advisor.
5. After completing 45 semester hours of coursework, apply for a Degree Audit with the Geography Department Academic Advisor.
6. After completing 90 semester hours of coursework, apply for a Degree Audit Summary with the College of Liberal Arts Academic Advisor, Flowers Hall 322.
7. Apply for graduation on-line during the first two weeks of the semester of graduation.



Consider joining Texas State's National Association of Environmental Professionals (NAEP) student organization or GTU - Geography's National Honor Society. Check bulletin board across the hall from ELA 139 for more information.