Resource and Environmental Studies

Geography Major Concentration, Bachelor of Science Degree

Texas State University Geography Advising Services

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Major Advisors:  
Dr. Richard Earl (Office ELA 365 / Phone 512-245-3204 / e-mail re02@txstate.edu)  
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Major Faculty:  
Dr. Denise Blanchard-Boehm, Dr. Brock Brown, Dr. David Butler, Dr. Frederick Day, Dr. Richard Dixon,  
Dr. Richard Earl, Dr. Ron Hagelman, Dr. Colleen Hiner, Dr. Jason Julian, Dr. Kimberley Meitzen, Dr. James  
Petersen, Dr. John Tiefenbacher, and Dr. Philip Suckling.

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 Concentration 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.

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.
   This degree requires at least a 2.5 GPA for geography courses attempted at Texas State University and 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 120 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 36 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. Geology, Physics, Biology, Chemistry, Anthropology, Computer Science,  
Mathematics, or Plant and Soil Science 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:

GIS - Geographic Information Science - 19 to 20 hours
Environmental Interpretation - 15 to 16 hours
Location Analysis - 16 to 18 hours
Water Resources Policy - 16 to 17 hours

Check http://www.geo.txstate.edu/degrees-programs/certificates/Certificate-in-Water-Resources-Policy.html or  
online Class Schedule/Catalog https://ssb.txstate.edu for more details.
### Resource and Environmental Studies Course Checklist

**Bachelor of Science:** 36 Semester Hours Minimum

**REQUIRED:**
- ______ 1309 Introduction to Cultural Geography or 1310 World Geography
- ______ 2410 Introduction to Physical Geography (Prerequisite: Math 1315 with a "C" or higher)
- ______ 3301 Quantitative Methods (Prerequisite: Math 1315 with a "C" or higher)

**CORE:** (12-13 hours)
- **At least one from:**
  - ______ 2310 Introduction to Environmental Geography and/or 3313 Natural Resource Use and Management
- **At least two from:**
  - ______ 3321 Energy Resource Management (Prerequisite: Math 1315 with grade of "C" or higher)
  - ______ 3434 Water Resources (Prerequisite: GEO 2410 or equivalent with grade of "C" or higher)
  - ______ 4350 Solid Waste Planning and Management (Prerequisite: GEO 2410 or equivalent with grade of "C" or higher)
  - ______ 4352 Air Quality Management (Prerequisite: GEO 2410 or 3305 with grade of "C" or higher)

**Required Capstone Course:**
- ______ 4313 Environmental Management (Prerequisite: GEO 2410 or equivalent with grade of "C" or higher and Junior or Senior status)

**TECHNIQUES:** You must select **at least one** of the following courses (more hours are recommended)
- ______ 2426 Fundamentals of GIS
- ______ 3411 Map and Mapmaking (Prerequisite: Math 1315 with grade of "C" or higher)
- ______ 3416 Principles of Remote Sensing (Prerequisite: Geo 2410 with grade of "C" or higher)
- ______ 4430 Field Methods (Prerequisites: GEO 2410 and GEO 3301 with grade of "C" or higher)

**ELECTIVES:** Select from the following courses to complete 36 hours requirements
- ______ 1105/1305 Meteorology
- ______ 3134 Water Quality Monitoring and Management (Pre or Co-Prerequisite: GEO 3434 with grade of "C" or higher)
- ______ 3303 Economic Geography
- ______ 3305 Climatology (Prerequisite GEO 2410 or equivalent with grade of "C" or higher)
- ______ 3310 Urban Geography
- ______ 3320 Community and Regional Planning
- ______ 3325 Geomorphology (Prerequisite GEO 2410 or equivalent with grade of "C" or higher)
- ______ 3335 Oceanography (Prerequisite GEO 2410 or equivalent with grade of "C" or higher)
- ______ 3340 Political Geography
- ______ 3349 Population Geography
- ______ 3426 Advanced GIS (Prerequisite: GEO 2426 with grade of "C" or higher)
- ______ 4310 Regional Field Studies (W.I.) (check with advisor)
- ______ 4314 River Basin Management (Prerequisite: GEO 2410 or equivalent with grade of "C" or higher)
- ______ 4316 Landscape Biogeography (Prerequisite: GEO 2410 or equivalent with grade of "C" or higher)
- ______ 4322 Interpretive Environmental Geography
- ______ 4325 Fluvial Processes - Spring Only (Prerequisite: GEO 3325 or 3434 with grade of "C" or higher)
- ______ 4334 Groundwater Resources - Fall Only (Prerequisite: GEO 3434 with grade of "C" or higher)
- ______ 4339 Environmental Hazards and Land Management (Prerequisite: GEO 2410 or equivalent with grade of "C" or higher)
- ______ 4341 Water policy - Fall Only (prerequisite GEO 3434 and 4313 with "C" or higher)
- ______ 4380 Internship in Geography
- ______ 4412 Digital Remote Sensing (Prerequisite: GEO 3416 with grade of "C" or higher)

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

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Consider joining one of Texas State Geography's Student Organizations. GTU - Geography's National Honor Society. Check bulletin board across the hall from ELA 139 for more information.