GEOGRAPHY, ENVIRONMENT AND PLANNING

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Programs Offered

- Bachelor of Arts in Environmental Studies
  - Energy Management and Design
  - Conservation and Restoration
  - Planning Concentration
- Bachelor of Science in Environmental Studies
  - Energy Management and Design
- Minor in Environmental Studies and Planning
- Double Major with Economics
- Bachelor of Arts in Geography
  - Environmental and Society Concentration
  - Geospatial Techniques Concentration
  - Biophysical Environment Concentration
  - Globalization and Identity Concentration
- Minor in Geography

The Department of Geography, Environment, and Planning (GEP) is new for Fall 2017. It reflects a merger of two past departments: the Department of Geography and Global Studies, and the Department Environmental Studies and Planning (ENSP). The new Department's mission is to promote excellence in teaching and research across four areas of focus: human-environment conflict and collaboration, building resilience with environmental systems, management and planning for community and environmental sustainability, and the application of geospatial and quantitative analyses to solving complex environmental and societal problems. We prepare students for careers in environmental professions, for graduate studies, and for their role as informed and thoughtful global citizens.

This 2017-2018 academic year, GEP will be maintaining most of the degrees previously housed within the two former departments. Students may declare a major in either Environmental Studies or Geography and follow any of the study plans listed above and described in detail below. The Department will maintain all of the courses required to graduate with those degrees. The ENSP Water Resource Management B.A. and B.S. study plans have been discontinued. Students currently in those study plans will be able to complete their degree, but students will no longer be able to declare those study plans.

In Fall 2018, the Department will offer a new Geography and Environment major. Current students will be able to change to that major, or keep their original major in either Environmental Studies or Geography. The Department will provide more information as it becomes available.

Careers in Geography, Environment, and Planning

Graduates find employment opportunities in both the public and private sectors. Private sector employers include consulting companies in fields such as alternative agriculture, viticulture, environmental management and consulting, land use mapping, land change analysis, and residential and commercial energy systems. Non-profits employers include large international organizations, such as the Nature Conservancy or the International Crisis Group, to small local organizations such as the Sonoma Ecology Center. Government employers include the Environmental Protection Agency, the Bureau of Land Management, U.S. Forest Service, State Department, Department of Homeland Security, CalTrans, California Division of Forestry, as well as various city and county departments in areas such as parks and recreation, open space, water, urban planning, and others.

Graduates work for these organizations in various capacities, including as park rangers, resource managers, restoration ecologists, geographic information analysts, remote sensing analysts, energy analysts, planners, environmental consultants.

Many graduates continue on to graduate school, pursuing various fields of study such as geography, ecology and wildlife management, international development, rural development, urban planning, transportation planning, journalism, environmental law, teaching, and a host of others.

Admission Requirements

When applying to Sonoma State University and declaring a major, a student may declare a B.A. in Environmental Studies, a B.S. in Environmental Studies, Energy Management and Design, or a B.A. in Geography. Students will be admitted to the two Environmental Studies degrees only if they meet academic requirements, which is currently a minimum GPA of 2.75. A student considering these degrees should make an appointment to see a faculty member for academic advising. There are no admissions requirements for the Geography degree.

Financial Aid and Scholarships

Students seeking financial aid to assist them in their studies should contact the financial aid office. Several scholarships are provided specifically for GEP students through the University scholarship program. For example, the Terrence M. Smith Geography Scholarship, the Geography Alumni Scholarship, and the Claude Minard Memorial Scholarship. Students pursuing studies in climatology or meteorology are eligible to compete for the annual Call Memorial Scholarships. Please refer to the Scholarships section of this catalog.

Department Resources

Geospatial Technology Instructional Laboratory (GTIL)
The Geography Department has a well-equipped computer laboratory that supports advanced instruction in geographic information systems (GIS), satellite image processing, digital cartography, and laboratory and field methods' data analysis. The GTIL includes 17 workstations, ArcGIS Desktop, ERDAS Imagine, IDRISI, Adobe Illustrator, and geobrowsers.

The Classroom Garden:
The garden adjacent to the Environmental Technology Center teaches SSU students and members of the public about sustainable landscape practices and how these contribute to biodiversity and environmental health. Through internships, volunteering, and classroom experiences, students gain a sense of place, community, purpose, and an enriched academic experience.

The Center for Interdisciplinary Geospatial Analysis (CIGA)
The Center for Interdisciplinary Geospatial Analysis promotes the application of geospatial technology to social and environmental problems through research, education, and community service. The lab seeks interdisciplinary collaboration among campus and external researchers, students, and other organizations in projects that involve geographic information and spatial analysis at local to global scales. The CIGA provides computer, software and data resources, Geographic Information System (GIS) and remote sensing expertise, consulting services, educational courses, and community outreach. Students are given a unique opportunity to broaden and refine their education by working on real-world problems in CIGA research projects and service contracts.

Sonoma Quaternary Laboratory (SQUAL)
The Sonoma Quaternary Laboratory specializes in reconstructing ecological, climate and landscape change caused by environmental and climate forces as well as human impacts over the past several thousand years. These paleoenvironmental reconstructions provide an important context for evaluating current and future environmental and climate change. The SQUAL houses state-of-the-art equipment for micro- and macro-botanical analysis as well as other sedimentary analyses. Students working in SQUAL have the opportunity to gain unique field and laboratory research skills.

The Center for Sustainable Communities:
The Center works with cities and counties, special districts, and regional and state government agencies utilizing faculty, students, and "encore career" professionals on a wide array of projects.

The Environmental Technology Center:
A model for sustainable building techniques and technologies, this center includes energy and water-efficient landscaping, "smart building" control technologies, environmentally-sensitive materials, passive solar heating and cooling, and more. It serves as a training facility for building professionals and teachers and as an educational and research site.

Map Library
The Map Library houses an extensive collection of digital and paper maps, and aerial photography.

The SSU Botanical and Kenneth M. Stocking Native Plant Garden:
A showcase of diverse California plant communities and a quiet place for education and relaxation. Located near the campus lakes, the garden includes a guided trail through woodland, marsh, and riparian ecosystems.

The Fairfield Osborn Preserve and Galbreath Wildlands preserve:
Two valuable learning environments are available off campus. The Fairfield Osborn Preserve is 411-acre field station atop Sonoma Mountain that provides environmental education programs and opportunities for scientific research. The Preserve is a fifteen-minute drive from campus. Galbreath Wildlands Preserve 3,670 acre preserve nestled in the Coast Range of northern California. The mission of the Preserve is to promote environmental education and research, as well as the effective stewardship of this diverse landscape.

Bachelor of Arts in Environmental Studies

Environmental Studies is aimed at the analysis, management, and solution of environmental problems and issues. Students and faculty work together across disciplines to develop a thorough understanding of environmental sustainability in all its dimensions. The program combines a core education in ecology, physical science, social sciences, and the humanities with targeted coursework in an area of expertise, including energy, conservation, and planning. The degree prepares students for careers in the environmental professions, graduate studies, and positive action in their own lives, and to help maintain and enhance the quality of human and natural environments. Each student chooses a study plan, and work with faculty to plan a course of study that will provide the best possible preparation for personal and professional fulfillment.

(See page 151-152 for a sample four-year program.)

Degree Requirements	**Units**
General education	32-37
(50, 13-18 units in major)	
Major Requirements	53
General Electives	52
Total units needed for graduation	**120**

Note*: Courses required for the major must be taken for a traditional letter grade,*

except for courses that are offered CR/NC only. Students must earn a C- or better in any course applied to the major.

Required Courses

All Environmental Study majors are required to complete: GEP 317 GEP Forum (1) In addition, in consultation with an advisor, students must complete one of the three study plans described below. At least 24 units of GEP course work are required for the B.A. Courses required for the major must be taken for a traditional letter grade, except for courses that are only offered Cr/NC.

Study Plans

In consultation with an advisor, students must complete one of the four study plans outlined below. Details of each plan, including specific courses and options, are available from the office of the Department of Geography, Environmental, and planning, or on our web page.

Energy Management and Design

This program is designed to prepare students for careers or for graduate studies in the fields of residential and commercial energy management, energy-efficient architecture and design, energy planning in industry and government, renewable energy applications, and other energy-related businesses.

Conservation and Restoration

Track 1, Biological Emphasis, is for students interested in science- based conservation, restoration, conservation planning, land management, and preservation. Students participate in an interdisciplinary curriculum that combines course work in ecology and biology with environmental policy, law, and/or planning. A minor in Biology is strongly encouraged. Track 2, Social Science Emphasis, is for students interested in the human dimensions of conservation and restoration. Coursework focuses on the political, historical, and/or geographic aspects of land and resource conservation, planning, and management, while also covering a solid interdisciplinary foundation of ecological understanding. A minor in Geography is strongly encouraged.

Planning Concentration (City and Regional Planning)

Students in the CSU-approved planning concentration follow a general pre-professional curriculum in planning and may choose to develop a specialization to suit their interests through a program of recommended electives. Focus is on sustainable community planning, including land use, growth management, environmental impact assessment, transportation, and natural resource planning. Graduates may work for a wide variety of governmental agencies, private firms, or non-profits, or may pursue graduate studies in planning or related fields. Students interested in future careers in environmental law typically follow the planning concentration.

Double Major with Economics

The double major in economics and environmental studies and planning is designed for those students whose particular academic and career interests lie in natural resource economics, economic development planning, and/or energy management. The double major is also designed especially for students who intend to pursue graduate studies in natural resource management, urban planning, law, or related career fields.

Students considering this double major should meet with both their GEP and ECON advisors to discuss requirements.

Bachelor of Science in Environmental Studies

A bachelor of science degree is available for students through an Energy Management and Design plan. Similar to the B.A., this program is designed to prepare students for careers or for graduate studies in the fields of residential and commercial energy management, energy-efficient architecture and design, energy planning in industry and government, renewable energy applications, and other energy-related businesses

(See page 152 for a sample four-year program)

Degree Requirements	Units
General education (50, 9-12 in major)	41
Science Support Courses	31
Major Requirements	35
General Electives	31
Total units needed for graduation	**120**

The following natural science support courses are required for the B.S. degree, in addition to the specific requirements for Energy Management and Design.

CHEM 115A General Chemistry	5*
CHEM 115B General Chemistry	5*
MATH 161 Calculus I	4
MATH 211S Calculus II	2
MATH 165* Elementary Statistics	4
PHYS 210A* General Physics (Algebra/Trig or Calculus-based)	3-4
PHYS 210B General Physics	3-4
Total units science support courses	**29-31**

** Courses that meet general education requirements.*

Minor in Environmental Studes and Planning

The purpose of the minor in environmental studies and planning is to help students from traditional disciplines apply their expertise to environmental and planning problems and issues. A minimum of 20 units is required. Students considering the ENSP minor should meet with an ENSP advisor to discuss requirements.

Bachelor of Arts in Geography

Geography is the academic discipline that bridges the natural and social sciences. Geographers study and analyze the relationships between human activities and the natural and built environment. They take a multidisciplinary approach to solving real-world problems at all spatial scales, from local to global. Thus, Geography provides students with the conceptual frameworks needed to understand the complex processes shaping the world around us. It also provides students with the skills needed to help create a more sustainable and just future.

Geography at Sonoma State University has developed four concentrations, reflecting four major fields of study within the broader discipline. These study plans provide an opportunity for students to strengthen their backgrounds and to develop an expertise in these particular areas.

All Geography Majors, no matter their concentration, take a range of core courses that ensure that they have a strong background

in both the natural and social sciences. They also take geospatial techniques and field and laboratory methods courses that develop their research and problem-solving skills. In addition, the curriculum strengthens students' writing, critical thinking, and oral presentation skills; areas that are important for any successful career. The department's strong intern program affords students on-the-job experience.

Degree Requirements

(See page 150 for a sample four-year programs in the degree)

Degree Requirements	Units
General education (50, 3)	47
Geography Courses	42
Supporting Courses	8
General Electives	23
Total units needed for graduation	**120**

Note: Courses required for the major must be taken for a traditional letter grade, except for courses that are offered CR/NC only. Students must earn a C- or better in any course applied to the major.

Core Requirements for the Major: 16 Units

Lower Division Core	*7*
GEP 201 Global Environmental Systems	4
GEP 203 Human Geography or GEP 205 World Regional Geaography	3
Regional Synthesis	*4*
GEP 327 Latin America and the Caribbean	4
GEP 328 Africa, South of the Sahara	4
GEP 339 Special Topics in Society, Environment and Development	4
Geographic Research and Synthesis	*5*
GEP 490A Human-Environment Capstone Pre-Seminar	1
GEP 490B Human-Environment Capstone Seminar	4

Environment and Society Concentration

This concentration is designed for students interested in human-environment relations, sustainable development, and natural resource management.

Breadth Courses (6-7 Units)

Geospatial Techniques	***3-4***
GEP 380 Environmental Remote Sensing	*4*
GEP 385 Cartographic Visualization	*3-4*
GEP 387 Introduction to GIS	*4*
Practical Experiences	***2-4***
GEP 312 Professional Conferences	*1-2*
GEP 313 Field Experience	*1-2*
GEP 314 Field Experience Abroad	*2-3*
GEP 440 Field Methods	*2*
GEP 317 Internship	*1-3*
GEP 441 Lab Methods	*2-3*
GEP 460 Lab Teaching Assistant in GEP	*2-3*

Concentration Courses (19-20 Units)

Take at least 6 units from each group

Group 1

GEP 322 Globalization and Environments	*4*
GEP 325 Global Food Systems	*4*
GEP 323 Resource Management & Development	*4*
GEP 324 Climate Change and Society	*4*

Group 2

GEP 350 Geomorphology	*4*
GEP 343 Biogeography	*4*
GEP 356 Global Climate Change	*4*
GEP 351 Natural Hazards	*3-4*
GEP 388 Environmental GIS	*3-4*

Supporting Courses (8 Units)

Suggested courses, with substitutions possible in consultation with an advisor.

ANTH 345 Anthropology and the Environment	*4*
ANTH 354 Quest for the Other: Tourism and Culture	*4*
ECON 381 Natural Resources and Environmental Economics	*4*
GEP 330 Environmental History	*4*
GEP 360 Introduction to Planning	*3*
GEP 373 Energy, Technology, and Society	*4*
GEP 336 U.S. Environmental Law	*3*
GEP 364 Environmental Planning	*3*

Globalization and Identity Concentration

This concentration is designed for students interested in focusing on global economic and political change, how this affects people's access to wealth and power, and how it shapes their sense of self in an ever-changing world.

Breadth Courses (10-11 Units)

Geospatial Techniques	***3-4***
GEP 380 Environmental Remote Sensing	4
GEP 385 Cartographic Visualization	3-4
GEP 387 Introduction to GIS	4

The Biophysical Environment	***3-4***
GEP 350 Geomorphology	4
GEP 343 Biogeography	4
GEP 355 Weather and Climate	4
GEP 356 Global Climate Change	4
GEP 351 Natural Hazards	3-4
Practical Experiences	***2-5***
GEP 312 Professional Conferences	1-2
GEP 313 Field Experience	1-2
GEP 314 Field Experience Abroad	2-3
GEP 440 Field Methods	2
GEP 317 Internship	1-3
GEP 441 Lab Methods	2-3
GEP 460 Lab Teaching Assistant in GEP	2-3
Concentration Courses (15-16 Units)	
GEP 305 World Regions in Global Context	4
GEP 320 Geopolitics	4
GEP 322 Globalization and Environments	4
GEP 325 Global Food Systems: Scarcity and Sustainability	4
GEP 371 Social Geography	3
GEP 370 Globalization and the city	4
Supporting Courses (8 Units)	
Suggested courses, with substitutions possible in consultation with an advisor.	
ANTH 324 Global Issues	4
ANTH 354 Quest for the Other: Tourism and Culture	4
ECON 303 International Economics	4
ECON 403 Seminar in Economic Development	4
POLS 303 Introduction to Comparative Government and Global Systems	4
POLS 304 Introduction to International Relations	4
POLS 452 Third World Political Systems	4
WGS 385 Gender and Globalization	4

BioPhysical Environment Concentration

This concentration is designed for students interested in focusing on the natural environment, including weather and climate change, landform processes, and biophysical patterns and processes.

Breadth Courses (12 Units)

Geospatial Techniques	3-4
GEP 380 Environmental Remote Sensing	4
GEP 385 Cartographic Visualization	3-4
GEP 387 Introduction to GIS	4
Human Geography	4
GEP 320 Geopolitics	4
GEP 322 Globalization and Environments	4
GEP 325 Global Food Systems	4
GEP 323 Resource Management & Development	4
GEP 370 Globalization and the City	4
GEP 324 Climate Change and Society	4
Practical Experiences	4-5
GEP 312 Professional Conferences	1-2
GEP 313 Field Experience	1-2
GEP 314 Field Experience Abroad	2-3
GEP 440 Field Methods	2
GEP 317 Internship	1-3
GEP 441 Lab Methods	2-3
GEP 460 Lab Teaching Assistant in GEP	2-3
Concentration Courses (14 Units)	
GEP 440 Field Methods	2
GEP 441 Lab Methods	2-3
GEP 350 Geomorphology	4
GEP 343 Biogeography	4
GEP 355 Weather and Climate	4
GEP 356 Global Climate Change:	4
GEP 351 Natural Hazards	3-4
GEP 388 Environmental GIS	3
Supporting Courses (8 Units)	***3-4***
Suggested courses, with substitutions possible in consultation with an advisor	
GEP 340 Applied Ecology	4
GEP 352 Soil Science	3-4
GEP 341 Conservation Biology	3-4
BIOL 330 Plant Taxonomy	4
BIOL 333 Ecology	4
BIOL 485 Biometry	4
GEOL 303 Advanced Principals of Geology	3
GEOL 304 Geological Mapping and Report Writing	1
GEOL 323 Hydrology	3
MATH 165 Elementary Statistics	4

Geospatial Techniques Concentration

This concentration is designed for students interested in geographic information science and its application in resource management, land-use planning, and land-change science.

Breadth Courses (19-10 Units)

Human Geography	4
GEP 320 Geopolitics	4
GEP 322 Globalization and Environments	4
GEP 325 Global Food Systems:	4
GEP 323 Resource Management & Development	4
GEP 370 Globalization and the City	4
GEP 324 Climate Change and Society	4
The Biophysical Environment	4
GEP 350 Geomorphology	4
GEP 343 Biogeography	4
GEP 355 Weather and Climate	4
GEP 356 Global Climate Change	4
GEP 351 Natural Hazards	3-4
Practical Experiences	4-5
GEP 312 Professional Conferences	1-2
GEP 313 Field Experience	1-2
GEP 314 Field Experience Abroad	2-3

GEP 440 Field Methods	2
GEP 317 Internship	1-3
GEP 460 Lab Teaching Assistant in GEP	2-3
Concentration Courses	***(16-17 Units)***
GEP 441 Lab Methods	2-3
GEP 380 Environmental Remote Sensing	4
GEP 385 Cartographic Visualization	3-4
GEP 387 Introduction to GIS	4
GEP 388 Environmental GIS	3-4
GEP 389 Advanced GIS	3
Supporting Courses	(7-8 Units)
Suggested courses, with substitutions possible in consultation with an advisor	
Math 165 Elementary Statistics	4
CS 101 Introduction to Computers and Computing	3
CS 115 Programming I	4

Geography Major Without Concentration

This option is intended for students who wish to design their own major. It allows students to take a broader range of courses.

Breadth Courses (10-12 Units)

Geospatial Techniques	**3-4**
GEP 380 Environmental Remote Sensing	4
GEP 385 Cartographic Visualization	3-4
GEP 387 Introduction to GIS	4
Human Geography	**4**
GEP 320 Geopolitics	4
GEP 322 Globalization and Environments	4
GEP 325 Global Food Systems	4
GEP 323 Resource Management & Development	4
GEP 370 Globalization and the City	4
GEP 324 Climate Change and Society	4
BioPhysical Environment	**3-4**
GEP 350 Geomorphology	4
GEP 343 Biogeography	4
GEP 355 Weather and Climate	4
GEP 356 Global Climate Change	4
GEP 351 Natural Hazards	3-4

Elective courses in Geography (14-16 Units)

Supporting courses outside Geography (8 Units)

Minor in Geography

GEP 201 Global Environmental Systems	4
GEP 203 Cultural Geography or GEP 205: World Regional Geography	3
Upper-division courses chosen in consultation with advisor	13
Total units in the minor	**120**

Sample Four-year Program for Bachelor of Arts in Geography

This suggested plan urges students to take one of the lower-division introductory geography courses in the spring of their freshman year. This plan does not identify a concentration, elective courses within the major, or supporting courses, both of which should be chosen after consultation with the Geography advisor(s). The sequence of courses is a suggestion only, so please see your Geography advisor each semester for assistance.

FRESHMAN YEAR: 30 Units

Fall Semester (16 Units)	*Spring Semester (14 Units)*
GE MATH (B4) (3)	GE PHIL 101 (A3) (4)
GE ENG 101 (A2) (4)	GE GEOG 203 (D2) (3)
GE (3)	GE (4)
GE (3)	University Elective (3)
University Elective (3)	

SOPHOMORE YEAR: 30 Units

Fall Semester (15 Units)	*Spring Semester (15 Units)*
GE (3)	GEOG 201 (B3) (4)
GE (3)	GE (3)
GE (3)	GE (3)
GE (3)	GE (3)
University Elective (3)	University Elective (2)

JUNIOR YEAR: 30 Units

Fall Semester (15 Units)	*Spring Semester (15 Units)*
Upper-Division GE (3)	Upper-Division GE (3)
GEOG (Upper-Div Regional) (4)	GEOG (Upper-Div. Human) (4)
GEOG (Upper-Div. Techniques) (4)	GEOG (Upper-Div. Biophysical) (4)
Upper-Div. Supporting (4)	University Elective (4)

SENIOR YEAR: 30 Units

Fall Semester (15 Units)	*Spring Semester (15 Units)*
Geography 490A (1)	GEOG 490B (4)
Geography Elective (3-4)	Upper-Division Supporting (4)
Geography Elective (4)	Internship or Geography Elective (4)
Upper-Division GE (3)	University Elective (3)
University Elective (3-4)	

TOTAL UNITS: 120

Sample Four-Year Program for Bachelor of Arts in ENSP-Conservation and Restoration (with Geography minor)*

Track II, Social Sciences Emphasis

This is only an example of how one might plan out your four years as a C&R Track II student; the only classes that have specific prerequisites are noted. Most GE classes can be taken in any order or sequence. Please consult with your advisor for suggestions of when to take particular courses, or when choosing electives. Students must complete a total of 120 units to meet university graduation requirements.

FRESHMAN YEAR: 30 Units

Fall Semester (13-16 Units)	*Spring Semester (13-16 Units)*
MATH 165 (B4) (4)	ECON 205 (D1) (4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)

SOPHOMORE YEAR: 30 Units

Fall Semester (13-16 Units)	*Spring Semester (14-17 Units)*
GEOG 203 (D2) (3)	GEOG 201 (B1) (4)
ENSP 201 (1)	SSCI 299 (1)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)

JUNIOR YEAR: 30 Units

Fall Semester (13-16 Units)	*Spring Semester (15-16 Units)*
ENSP 302 (4)	ENSP 322 (4)
ENSP 307 (4)	ENSP 401 (4)
Elective in Major (2-4)**	GEOG Elective for Minor (4)
Upper-Division GE (3-4)	Upper-Division GE (3-4)

SENIOR YEAR: 30 Units

Fall Semester (12-14 Units)	*Spring Semester (14-16 Units)*
ENSP 416 (4) OR ENSP 404 (3)	ENSP 425 (4)
GEOG 387 (4)	ENSP 497 (2)
Upper-Division GE (3-4)	ENSP 499 - Internship (2)
ENSP 499 - Internship (2)	GEOG Elective for Minor (4)**
	Elective in Major (2-4)

TOTAL UNITS: 120

** Please note that the Geography minor is optional, not required*

*** See study plan for list of eligible courses.*

Sample Four-Year Program for Bachelor of Arts in ENSP-Energy Management and Design

FRESHMAN YEAR: 30 Units

Fall Semester (15 Units)	*Spring Semester (15 Units)*
CHEM 115A (5)	GE (A3) (4)
ECON 205 (4)	GE (B2) (4)
GE (A1) (3)	GE (C) (4)
GE (A2) (3)	GE (D1) (3)

SOPHOMORE YEAR: 30 Units

Fall Semester (15 Units)	*Spring Semester (15 Units)*
MATH 160 (4)	ENSP 202 (3)
GE (C) (4)	PHYS 210A (3)
GE (D2) (3)	GE (D3) (3))
GE (C) (4)	GE (D4) (3)
	GE (D5) (3)

JUNIOR YEAR: 32 Units

Fall Semester (16 Units)	*Spring Semester (16 Units)*
ENSP 201 (1)	ENSP 401 (2)
ENSP 307 (4)	ENSP 430 (4)
ENSP 330 (4)	ENSP 437 (4)
ENSP 337 (4)	GE (E) (3)
GE (B3) (3)	Elective (3)

SENIOR YEAR: 28 Units

Fall Semester (15 Units)	*Spring Semester (13 Units)*
ENSP 303 (4)	ENSP 430 (2)
ENSP 338 (4)	ENSP 438 (4)
ENSP 499 - Internship (4)	Elective (4)
Elective (3)	Elective (3)

TOTAL UNITS: 120

Sample Four-Year Program for Bachelor of Arts in ENSP-Planning

This is just an example of how one might plan four years as a Planning student. Classes that have prerequisites are noted, though those prerequisites can change. Most GE classes can be taken in any order or sequence. Consult with your advisor for suggestions on when to take particular courses and when choosing electives.

FRESHMAN YEAR: 30 Units

Fall Semester (13-16 Units)	*Spring Semester (13-16 Units)*
ENSP 200 (D5) (3)	MATH 165 (B4) (4)
ENSP 201 (1)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	

SOPHOMORE YEAR: 30 Units

Fall Semester (13-16 Units)	*Spring Semester (13-16 Units)*
GEOG 203 (D2) (3)	ECON 205 (D1) (4)
ENSP 201 (1)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	GE/Elective (3-4)
GE/Elective (3-4)	

JUNIOR YEAR: 30 Units

Fall Semester (13-15 Units)	*Spring Semester (14-16 Units)*
ENSP 302 (4)	ENSP 303 (4)
ENSP 310 (3)	ENSP 311 (4)
A Course from the "Planning Skills" Category (3-4)	A Course from the "Humanities" Category (3-4)
Upper-Division GE (3-4)	Upper Division GE (3-4)

SENIOR YEAR: 30 Units

Fall Semester (15-18 Units)	*Spring Semester (11-12 Units)*
ENSP 315 (3)	ENSP 411B (4)
ENSP 411A (4)	ENSP 415 (3)
ENSP 499 - Internship (3)	ENSP 498 (1)
A Course from the "Technical and Research Skills" Category (2-4)	An Additional Course from the "Planning Skills" Category (3-4)
Upper-Division GE (3-4)	

TOTAL UNITS: 120

Sample Four-Year Program for Bachelor of Science in ENSP-Energy Management and Design

FRESHMAN YEAR: 31 Units

Fall Semester (15 Units)	*Spring Semester (16 Units)*
CHEM 115A (5)	CHEM 115B (5)
GE (A1) (3)	MATH 161 (4)
GE (A2) (3)	GE (C) (4)
GE (A3) (4)	GE (D1) (3)

SOPHOMORE YEAR: 30 Units

Fall Semester (14 Units)	*Spring Semester (16 Units)*
MATH 211S (2)	PHYS 214 (4)
PHYS 114 (4)	GE (D2) (3)
GE (B2) (4)	GE (D3) (3)
GE (C) (4)	GE (D4) (3)
	GE (D5) (3)

JUNIOR YEAR: 31 Units

Fall Semester (16 Units)	*Spring Semester (15 Units)*
ENSP 201 (1)	ENSP 430 (2)
ENSP 330 (4)	ENSP 438 (4)
ENSP 338 (4)	GE (E) (3)
GE (C) (4)	Elective (3)
Elective (3)	Elective (3)

SENIOR YEAR: 28 Units

Fall Semester (15 Units)	*Spring Semester (13 Units)*
MATH 165 (4)	ENSP 430 (2)
ENSP 337 (4)	ENSP 437 (4)
ENSP 499 - Internship (4)	Elective (4)
Elective (3)	Elective (3)

TOTAL UNITS: 120