

# Environmental Policy and Planning

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(Bachelor of Science)

Environmental Policy and Planning is an environmental studies program based in the social sciences. It is designed to prepare students for a variety of challenging professions involving the planning, analysis, design, and administration of policies and programs dealing with the natural and human-made environment. Students who major in Environmental Policy and Planning consider environmental challenges through the lens of law, politics, and economics. The program provides students with a solid background in environmental policy, environmental law, environmental planning, environmental design, and an introduction to sustainable development and community-based environmental protection. It also prepares students for graduate work in environmental studies, public policy, public administration, law, community planning, and related fields.

Environmental Policy and Planning majors engage in both theoretical and applied study in their courses, and have flexibility to choose from different emphases. Students may serve as interns in planning agencies in local governments, work in teams with a professor to conduct community planning and design, work with environmental organizations, or develop programs for sustainable communities. The three program emphases from which majors can choose are public policy, environmental planning (managing resources in the natural environment), and environmental design (creating the built environment).

The major in Environmental Policy and Planning consists of two sets of requirements: 1) required supporting and analytical courses and 2) upper-level courses within an area of emphasis. Students should discuss these Emphases with their program advisor when establishing an academic plan.

The **public policy emphasis** focuses on environmental policy development and implementation; methods of policy analysis; and political, administrative, legal, and economic issues in environmental policy. It provides students with a strong background in the public policy and administrative aspects of environmental studies. This emphasis prepares students for employment in the public, nonprofit, and private market sectors as environmental policy analysts, specialists in public information, environmental management, government relations, and related careers, as well as for graduate work in environmental studies, public policy, public affairs, administration, and law.

The **environmental planning emphasis** focuses on sustainable and resilient land use and planning methods for human settlements and our surrounding environments in an era of climate change and resource scarcity. This emphasis teaches you skills in management of land and natural resources, techniques in geographic information systems, and how to adapt to the accelerating human influences on our environment. Students interested in learning skills in designing and planning community redevelopment; protection and management of farmland, forests, air, waters, flora and fauna at the community and regional levels; and developing comprehensive environmental impact studies may want to select this emphasis. It helps prepare students for careers and graduate work in environmental planning, community and regional planning, community-based environmental management, geography, and related fields.

The **regional planning and environmental design emphasis** focuses on creative problem-solving techniques in defining, analyzing, and solving problems in the built environment at human scale. Emphasizes basic graphic and verbal presentation techniques and relationships between form, the natural environment, people and function. Students interested in developing skills in the planning and urban design at the community and regional levels may want to select this emphasis. It helps prepare students for careers and graduate work in architecture, environmental planning, urban and regional planning, and community-based non-profit organizations that work in community development, geography, and related fields

A **minor in Environmental Policy and Planning** is similar to the major in developing knowledge and skills in planning, decision-making, public policy, environmental design, political and economic processes, as well as the analytic capacities to participate in decision-making. An interdisciplinary minor in Environmental Policy and Planning is a good choice for students who wish to major in Environmental Science, Public Administration, Political Science, Economics, Urban Studies, Democracy and Justice Studies, or a number of other programs.

## Considering a Double Major or Certificate?

Some students may want to consider a double major, combining Environmental Policy and Planning with Public Administration. Other popular second majors include Political Science, Urban Studies, and Economics. A double major or a minor in one of these fields complements the Environmental Policy and Planning curriculum, and makes students stronger candidates when seeking careers or entry into graduate programs.

A certificate in Environmental Sustainability and Business fits well with a major or minor in Environmental Policy and Planning. Likewise, students interested in working in an non-governmental or non-profit organization might explore the certificate in Nonprofit Management. Students should contact a faculty adviser early in their academic careers for advice on these options.

Students may study abroad or at other campuses in the United States through UW-Green Bay's participation in international exchange programs and National Student Exchange. Travel courses are another option for obtaining academic credits and completing requirements. For more information, contact the Office of International Education at (920) 465-2190 or see <http://www.uwgb.edu/international/>.

## Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Regional Planning & Environmental Design Emphasis (<http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/major/design-emphasis>)
- Environmental Planning Emphasis (<http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/major/planning-emphasis>)
- Environmental Policy Emphasis ([http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/major/env\\_pol-emphasis](http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/major/env_pol-emphasis))
  - Environmental Policy Emphasis (Accelerated) / Integrated with graduate Environmental Science & Policy program ([http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/major/env\\_pol-emphasis-acc](http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/major/env_pol-emphasis-acc))
- Environmental Policy and Planning Minor (<http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/minor>)

An academic plan for a major in Public Administration may vary, depending upon student interests, needs, and specialization within the major. The courses listed below, and the sequence in which they are listed, represent the faculty's recommendation for the general array of courses taken by all students in the program. Of particular importance is that lower-level prerequisites be completed before enrollment in upper-level courses. Students should pay particular attention to those required courses included in their academic plans that are offered only in alternate years.

As part of the general education requirements of the University, all majors will be completing 36 to 42 credits of work, including 9 credits or 3 courses each in the humanities, natural sciences, and social sciences, 3 credits in Other Cultures, 3 credits of Ethnic Studies and 4 courses certified for the Writing Emphasis requirement. Some of these requirements are satisfied by courses taken as part of the major. Beyond these, we encourage Public Administration majors to discuss their preferences for general education courses, as well as other electives, with the PEA faculty. In general, we recommend that students become thoroughly acquainted with the major ideas, findings, and methods of inquiry in each domain of knowledge. We especially encourage majors to take introductory courses in the social sciences beyond those required as lower-level prerequisites (e.g., in sociology, psychology, and political science).

Recommended Academic Plan (using a sample of a possible electives) (<http://catalog.uwgb.edu/archive/2019-2020/undergraduate/programs/environmental-policy-planning/cg>)

**Ray Hutchison**; Professor; Ph.D., University of Chicago

**John R Stoll**; Professor; Ph.D., University of Kentucky, chair\*

**Marcelo P Cruz**; Associate Professor; Ph.D., University of California - Los Angeles

**David J Helpap**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Thomas S Nesslein**; Associate Professor; Ph.D., University of Washington - Seattle

**Laurel E Phoenix**; Associate Professor; Ph.D., State University of New York - College of Environmental Science and Forestry\*

**Lora H Warner**; Associate Professor; Ph.D., Virginia Commonwealth University

**Aaron C Weinschenk**; Associate Professor; Ph.D., University of Wisconsin - Milwaukee\*

**Elizabeth E Wheat**; Associate Professor; Ph.D., Western Michigan University\*

## Courses

### **PU EN AF 102. Environment and Society. 3 Credits.**

Complex, energy-intensive societies are facing multiple challenges due to finite resources. This course examines the relationship between humans and the biophysical environment at local, national, and global levels. Emphasis is given to the impact of personal attitudes, cultural beliefs, economics, politics, technology and available resources on environmental problems and solutions. We use systems analysis to highlight how our biophysical environment conditions our human endeavors, and how we need to create resilient social systems to achieve a sustainable society.

Fall and Spring.

### **PU EN AF 198. First Year Seminar. 3 Credits.**

First Year Seminar, topics vary.

Reserved for New Incoming Freshman.

### **PU EN AF 202. Introduction to Public Policy. 3 Credits.**

Contemporary issues in American public policy. Substantive public policies such as those dealing with the American economy, health care, energy, environmental quality, the welfare state and social programs. Models of the policy process are also considered.

Fall and Spring.

### **PU EN AF 215. Introduction to Public Administration. 3 Credits.**

Using case studies, this course explores the principal tools and methods for conducting public affairs, the external and internal elements affecting public agencies, and the role of these elements and the human dimension in creating and implementing public policies and programs.

Fall and Spring.

**PU EN AF 220. Economics, Politics, and Government Action. 3 Credits.**

Today, government plays a huge role in the economy in three broad ways. First, there is a large and growing array of economic laws and regulations. Second, the government provides a large range of services through various government programs and agencies. These include Social Security, Medicare, Medicaid, government housing, unemployment and disability insurance, and various poverty programs, among others. Finally, government programs need to be financed. These include the federal income tax, state income taxes, Social Security taxes, inheritance taxes, property taxes, and high excise taxes on goods such as gasoline, alcohol and tobacco products, among others.

Spring.

**PU EN AF 225. Introduction to the Nonprofit Sector. 3 Credits.**

The purpose of this course is to introduce students to the world of nonprofit organizations including the diverse range of organizations and the activities they engage in and the enormous range of services that the sector provides. The course takes a macro-level approach, focusing on the sector as a whole. Through community engagement and guest speakers, students learn the opportunities and career paths that exist in this field.

Spring.

**PU EN AF 250. Introduction to Geographic Information Systems (GIS). 2 Credits.**

Computerized Geographic Information Systems (GIS) represent revolutionary software advancement that allow sophisticated information management, analysis and mapping with computer systems. In this class you will learn basic principles for creation and analysis of digital maps, cartographic concepts, and experience an intensive introduction to GIS software (e.g., ArcGIS).

Fall and Spring.

**PU EN AF 299. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.

**PU EN AF 301. Environmental Politics and Policy. 3 Credits.**

U.S. and global environmental problems and their political implications. Emphasizes U.S. environmental politics, issues and controversies in environmental protection policy, the performance of governmental institution in response to environmental challenges, and strategies for environmental improvement.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall and Spring.

**PU EN AF 305. Natural Resources Economic Policy. 3 Credits.**

Examines 1) the economic rationale for policy, 2) the various types of policy approaches used, and 3) alternative policy options for managing the development and sustainable use of natural resources (broadly defined to include environmental resources). Particular attention is paid to the longer time horizon required for sustainability and maintenance of quality ecosystems, a necessary condition, or precursor, to having a dynamic and vibrant economic system over time.

P: ECON 102 or ECON 202 or ECON 203

Fall Only.

**PU EN AF 306. Regulatory Policy and Administration. 3 Credits.**

The origins, purposes and operation of regulatory agencies and the programs in the U.S.: theories of regulation, issues and controversies in regulatory policy, and decision-making in such areas as economic regulation, public health, consumer protection workplace safety and environmental quality.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall Even.

**PU EN AF 314. Administrative Law. 3 Credits.**

Administrative law in the American federal (intergovernmental) system: connections between administrative law issues and issues of public policy; and legal dimensions of administrative problems.

P: Pol Sci 101 or Pu En Af 215.

Fall Only.

**PU EN AF 315. Public and Non-Profit Management. 3 Credits.**

Using applied learning techniques, this course explores management in public and nonprofit organizations from the perspective of a manager. Topics include board leadership, role of executive, motivation, marketing, fundraising, planning, and more. Students investigate and analyze the management practices of a local organization.

P: Pol Sci 101 or 202 or Pu En Af 202; REC: Pu En Af 215.

Fall and Spring.

**PU EN AF 321. Coastal Resources Policy and Management. 3 Credits.**

The importance of coastal resources, ranging from Wisconsin to the Great Lakes to our Pacific, Atlantic, and Gulf coasts. We will study issues of development, overuse, risk, and their consequent human, environmental, aesthetic and economic impacts.

Fall Only.

**PU EN AF 322. Environmental Planning. 3 Credits.**

History, processes, and impacts of environmental planning in the United States. Action forcing legislation and its effect on environmental issues and processes. Combines earth sciences and natural sciences with mapping and planning to understand key aspects of adapting our built environment to not impose further on our natural environments, and in fact to remediate some of the damage caused to natural environments and social well-being. Emphasizes adaptive environmental planning and implementation at the national, state, and local levels in the contexts of growing human populations, decreasing natural resources, and climate change.

REC: PU EN AF 102 or Env Sci 102.

Spring.

**PU EN AF 323. Sustainable Land Use. 3 Credits.**

How do we develop walkable, equitable communities and sustainable land use plans for urban and rural areas? This course uses a systems perspectives analysis of land use control methods, legal foundations, social implications, environmental impacts, financial influences, civil and property rights, cumulative impacts, and more. Land use is an increasingly contested topic due to external financial interests, growth pressures, shifting populations, and conditions placed on personal or property rights. Sustainable land use planning requires understanding the interplay between humans and the landscapes we live in or draw from and the constraints or opportunities we work with to fashion more sustainable land use at the local, regional, and national level.

P: None. REC: PuEnAf 202 or EnvSci 102

Spring.

**PU EN AF 324. Transitioning to Sustainable Communities. 3 Credits.**

Rising energy costs and climate change mean that we need resilient communities based on localizing inputs/outputs to support health, jobs, housing, transportation, schools, agriculture and city services. We emphasize the many facets of human settlements and the increasingly limited biophysical resources we depend on to structure our social, economic, and environmental systems, and how to make them self-sustaining, energy-efficient, and reliant on local control for job creation, wealth creation, food production and other land use issues. Systems analysis allows us new perspective of the complexities surrounding these interconnected problems. Applying innovative strategies in every sector of daily life will make communities more resilient as they face higher energy costs and climate variability.

P: None. REC: PuEnAf 202 or EnvSci 102

Fall and Spring.

**PU EN AF 326. Philanthropy: Civic Engagement through Giving. 3 Credits.**

A hands-on, student-led course where students give away an actual grant to a local organization. After studying community needs, interviewing experts, gathering local data, working with nonprofits and learning from area philanthropists, students choose how to allocate actual funds (provided by community partners) to one or more to organizations in the community. Appropriate for all majors.

Spring.

**PU EN AF 335. Principles and Practices of Emergency Management. 3 Credits.**

The philosophy of comprehensive Emergency Management will be discussed with the four attendant steps, which include mitigation, preparedness, response and recover. In addition, legal issues involving state and Federal law effecting emergency operations will be studied.

REC: Pu En Af 315.

**PU EN AF 336. Strategic Emergency Preparedness, Planning and Implementation. 3 Credits.**

Strategic planning and budgeting is a very important component in emergency planning and mitigation. Learn how to acquire and allocate resources, plan for crises with or without warning, and implement preparedness programs.

**PU EN AF 337. Disaster Response Operations and Management. 3 Credits.**

Examine the roles and responsibilities of the players in a crisis event. Explore the various problems associated with response operations such as: inadequate preparedness measurers, safety and site security, politics, and record keeping.

**PU EN AF 338. Disaster Recovery. 3 Credits.**

Examine disaster recovery in isolation. Explore the short and long term effects of disasters, as well as, the process of putting families, businesses and communities back together. You will learn the importance of reconstruction and relocation.

**PU EN AF 339. Political and Policy Dimensions of Emergency Management. 3 Credits.**

This course considers the political and policy environment in which emergency management is practiced. It focuses on political processes and phenomena associated with mitigating the likely effects of extreme events, responding to them, and recovering from them. The course is intended to help emergency managers develop an understanding of local, state, federal, and intergovernmental politics affecting and affected by extreme events.

**PU EN AF 344. Leadership in Organizations. 3 Credits.**

There is no single leadership theory or approach that will universally apply across all situations. The purpose of this course is to introduce students to the major theories and models of leadership with a focus on how we can use these theories and models to transform our leadership in practice. Through the use of interactive course activities, students will identify strong leadership practices and distill principles of exemplary leadership for use in their own organizations and communities.

P: None. REC: ORG LEAD 198

Fall and Spring.

**PU EN AF 345. Human Resource and Risk Management. 3 Credits.**

This course is applicable to organizations which utilize paid or volunteer staff and face multiple sources of risk to their functioning. Topical coverage will include risk assessment and planning as well as staff development, performance standards, and professional practices regarding proper interviewing, hiring, evaluation and dismissal procedures. Legal requirements and the institutional setting for both human resource and enterprise risk management will be examined.

Fall and Spring.

**PU EN AF 350. GIS in Public and Environmental Policy. 2 Credits.**

Uses state-of-the-art software to integrate digitized data maps, transfer data, manage relational data bases, overlay maps, display, query, edit interactive graphics, and geocode addresses. Focus is upon GIS applications tailored to public and environmental policy, e.g., tax base analysis, property mapping, natural resources inventory, crime demography, transportation routing, natural hazards, and emergency management.

P: Pu En Af 250

Fall and Spring.

**PU EN AF 351. Water Resources Policy and Management. 3 Credits.**

The world faces unprecedented challenges as vital water is used and abused, mismanaged and wasted. This course is a comprehensive analysis of the current state of water issues and future implications, introducing basics of water management and planning. Topics covered are: basic hydrological cycle, human impacts on the hydrologic cycle, water pollution, flood and drought, mining of aquifers, water conflicts, state water laws, historical municipal and irrigation development, dams and pipelines, water and wastewater treatment (and related laws), effects of land use, effects of climate change, FOOD-ENERGY-WATER nexus, economics of water, and contemporary strategies to improve water use and quality. Focus is mostly national, with many local and global examples.

Spring.

**PU EN AF 360. Immigration and Immigration Policy. 3 Credits.**

Americans have come from every corner of the globe, and they have been brought together by a variety of historical processes--conquest, colonialism, the slave trade, territorial acquisition, and voluntary immigration. Immigration, anti-immigration sentiments, and the motivations and experiences of the migrants themselves are examined by looking at the many legal efforts to curb immigration and to define who is and is not an American, ranging from the Naturalization Law of 1795 (which applied only to "free-born white persons") to the Chinese Exclusion Act of 1882, the Emergency Quota Act of 1921, and the reform-minded Immigration and Nationality Act of 1965, which opened the door to millions of newcomers, the vast majority from Asia and Latin America. Immigration is looked at from the perspective of the migrant--farmers and industrial workers, mechanics and domestics, highly trained professionals and small-business owners--who willingly pulled up stakes for the promise of a better life. The course sheds light on the relationships between race and ethnicity in the formation of American society, and it emphasizes the marked continuities across waves of immigration and across different racial and ethnic groups. The course will offer students the opportunity to develop their own perspective on the long history of calls for stronger immigration laws and the on-going debates over the place of immigrants in American society.

P: jr st.

Fall Only.

**PU EN AF 378. Environmental Law. 3 Credits.**

An overview of major environmental laws such as the Clean Air and Clean Water Acts, with emphasis on how these laws are implemented by the federal and state governments.

P: Pol Sci 101 or 202 or Pu En Af 202 or 215.

Fall Only.

**PU EN AF 379. Natural Resources Policy, Law, and Administration. 3 Credits.**

This course examines public land and resources policy, law and administration from multiple perspectives. It covers environmental and administrative decision making and various contemporary resource management problems and conflicts.

P: Pol Sci 101 or Pu En Af 202

Spring Even.

**PU EN AF 380. Global Environmental Politics and Policy. 3 Credits.**

This course explores the transnational and international context of environmental politics and policy. Particular focus areas include the causes of environmental harm, the meaning of sustainability, and the relevance of new environmental actors on the global stage.

P: jr st. REC: Pol Sci 100

Spring.

**PU EN AF 390. Colloquium in Environmental Sustainability & Business. 1 Credit.**

Required component of the Certificate in Environmental Sustainability and Business. Focus is placed upon the nature of systems thinking systems dynamics, and problem solving. Will address systems dynamics in natural world policy creation, human creativity and the arts, and business decision making. Latter half of class is applications focussed.

P: jr st & EMBI certificate enrollment

Fall and Spring.

**PU EN AF 402. Environmental and Resource Economics. 3 Credits.**

Applications of tools such as cost-benefit analysis and other economic concepts in current public decision making, with special emphasis upon common property resources management.

P: Econ 303 or 305.

Spring.

**PU EN AF 406. State and Local Government. 3 Credits.**

Policy and institutional comparisons across states and local governments through hands-on research, placing a special focus on Wisconsin's local governments.

P: Pol Sci 101 or Pu En Af 215.

Spring.

**PU EN AF 407. Service in the Public Sector. 3 Credits.**

This course explores what is meant by public service, with a special focus on service in local governmental settings. The course considers case studies from the International City/Council Management Association and what management and leadership in local government entails.

REC: Pu En Af 215

Fall Only.

**PU EN AF 408. Public Policy Analysis. 3 Credits.**

An introduction to public policy analysis and to the policy-making process, primarily in American government. The course emphasizes the political aspects of policy analysis, models and methods for rational design of public policies, and applications of policy studies to particular public problems.

P: Pol Sci 101 or 202 or Pu En Af 202.

Fall and Spring.

**PU EN AF 409. Public Finance and Fiscal Policy. 3 Credits.**

Effects of government spending and taxation on resource allocation, incomes, prices and employment. Includes consideration of the uses and effects of fiscal policy.

P: Econ 203.

Fall Odd.

**PU EN AF 415. Public and Nonprofit Budgeting. 3 Credits.**

The purposes and attributes of major public budgetary systems: principles and methods in designing and managing relationships among program planning, policy planning and budgetary operation; applications of analytical and decision-assisting tools in public budgetary operations.

P: Pol Sci 101 or 202 or Pu En Af 202 or 215.

Spring.

**PU EN AF 425. Fundraising and Marketing for Nonprofits. 3 Credits.**

The course is designed for students aspiring to manage a nonprofit or serve on a Board of Directors. Throughout the semester, students develop a portfolio of marketing and fundraising plans and materials for a nonprofit organization. Emphasis on writing for social media, case statements, total development plans, and grant seeking.

P: Pu En Af 315

Fall Only.

**PU EN AF 428. Public and Nonprofit Program Evaluation. 3 Credits.**

A course that develops a working understanding and selected skills relating to the conduct of program evaluations. This course focuses on skills needed to identify and measure program outcomes in order to ensure the effectiveness of programs. Throughout the semester, students develop an actual evaluation plan in partnership with a local public or nonprofit organization, developing professional skills including writing, presenting, communicating, and working in teams.

P: None. REC: PU EN AF 215; PU EN AF 315

Spring.

**PU EN AF 430. Seminar in Ethics and Public Action. 3 Credits.**

A capstone course intended to introduce a range of ethical concerns in public affairs. Through theoretical and case study readings and applied projects, students deal with ethical issues and varied responses to them.

Fall and Spring.

**PU EN AF 431. Building Sustainable Landscapes. 3 Credits.**

This course covers the principles, materials, and methods you need to know for building a wide variety of outdoor sustainable projects to create resilient environments. Topics cover remediating brownfields, healing injured soils, stabilizing slopes, using living materials, collecting and reusing water, raingardens and swales, porous pavements, materials origin and fate, embodied energy and maintenance energy costs, native plants and permaculture designs, urban agriculture and wildlife corridors, using light and darkness to your advantage, reducing noise, sustainable inputs to landscape maintenance, certification or other ways of measuring sustainable outcomes, pre-construction considerations, and more. Students will apply these concepts in a small demonstration project. No previous construction experience required.

P: None. REC: PuENAF 102 or EnvSCI 102 or consent of instructor

Fall Odd.

**PU EN AF 450. Advanced Geographic Information Systems. 3 Credits.**

Project-based course using ArcGIS. Students define a project, develop a database, analyze spatial data, and develop GIS maps displaying results of their analysis.

P: Geog 350 or Pu En Af 350.

Spring Even.

**PU EN AF 452. Planning Theory and Methods. 3 Credits.**

Planning for public and not-for-profit agencies: theory and practical significance of planning; the political and administrative setting of planning operations; and methods of planning analysis such as strategic planning.

P: BUS ADM 216 or COMM SCI 205 or MATH 260

Fall Even.

**PU EN AF 453. Cost Benefit Analysis. 3 Credits.**

Application of tools and concepts in current economic decision making, with special emphasis upon Natural Resource management, environmental problems, market failure, and public policy approaches.

**PU EN AF 461. Special Topics in Public and Environmental Affairs. 3 Credits.**

An interdisciplinary study of public policy issues selected from public administration and environmental policy and planning. Includes issues such as health care reform, environmental policy analysis, policy planning.

**PU EN AF 478. Honors in the Major. 3 Credits.**

Honors in the Major is designed to recognize student excellence within interdisciplinary and disciplinary academic programs.

P: min 3.50 all cses req for major and min gpa 3.75 all UL cses req for major.

Fall and Spring.

**PU EN AF 490. EMBI Co-Op/Experience. 3 Credits.**

Required component of the Certificate in Environmental Sustainability and Business. Enrolled students will be placed by EMBI in a business, nonprofit, or governmental setting that involves interdisciplinary problem solving within an environmental sustainability context. This will be a special co-op/ internship/project experience. Course is not repeatable for credit.

P: Junior standing and enrollment in Environmental Sustainability and Business certificate program.

Fall and Spring.

**PU EN AF 493. Peer Mentor for First Year Seminar. 3 Credits.**

In this course, students will work in First Year Seminar classes as peer mentors for first year students. Peer mentors will help promote the development of skills relevant to student success, will encourage student engagement with the university, and will act as a role model for first year students. Through this work, peer mentors will learn about college student development and effective practices in teaching and learning, will develop professional and interpersonal skills such as communication and leadership, and will have the opportunity to apply this knowledge in their work with first year students.

P: Successful completion of First Year Seminar and approval of Instructor.

Fall and Spring.

**PU EN AF 494. Teaching Assistant. 3 Credits.**

This course is designed to provide students the opportunity to learn about teaching as an assistant in a college-level course. The goals of this course include: to introduce upper-level undergraduate students to the scholarship on teaching and learning through regular discussions; to introduce students to the roles of college-level teachers; and to enhance knowledge and learning in the department course offerings. Related, there are goals and learning objectives outlined for the students of the class. Thus, you will observe and assist in finding the best ways to meet these goals and objectives through your study of teaching and learning scholarship, our weekly meetings, and your coordination of class activities. Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: Jr standing; completion of course in previous semester REC: Major in one of the PEA programs (Environmental Planning and Policy, Public Administration, or Urban Studies).

Fall and Spring.

**PU EN AF 495. Research Assistantship. 3 Credits.**

Students will assist faculty in conducting research. Responsibilities may include literature reviews, library investigations, questionnaire development, recruitment and interviewing of research participants, data collection, management of research studies, data entry, and some statistical analyses.

Course is repeatable for credit; may be taken 2 times for a total of 6 credits.

P: jr standing or higher. REC: completion of COM SCIENCE 205 Social Science Statistics (or similar course) and COM SCI 301 Foundations for Social Research (or similar course).

**PU EN AF 497. Internship. 1-12 Credits.**

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

P: jr st.

Fall and Spring.

**PU EN AF 498. Independent Study. 1-4 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member. A student wishing to study or conduct research in an area not represented in available scheduled courses should develop a preliminary proposal and seek the sponsorship of a faculty member. The student's advisor can direct him or her to instructors with appropriate interests. A written report or equivalent is required for evaluation, and a short title describing the program must be sent early in the semester to the registrar for entry on the student's transcript.

P: fr or so st with cum gpa  $\geq$  2.50; or jr or sr st with cum gpa  $\geq$  2.00.

Fall and Spring.

**PU EN AF 499. Travel Course. 1-6 Credits.**

Travel courses are conducted to various parts of the world and are led by one or more faculty members. May be repeated to different locations.

P: cons of instr & prior trip arr & financial deposit.