Environmental Economics and Policy—EEP

460 **Natural Resource Economics**  
Spring, 3(3-0) Interdepartmental with Resource Development; Park, Recreation and Tourism Resources; Biosystems Engineering. Administered by Department of Community, Agriculture, Recreation and Resource Studies. P: (EC 201) and (RD 302 or EEP 255)  
Economic framework for analyzing natural resource management decisions. Spatial and inter-temporal allocation of renewable and nonrenewable resources. Special emphasis on institutions, externalities, and public interests in resource management.

470 **Theory and Practice in Community and Economic Development**  
Spring, 3(3-0) Interdepartmental with Resource Development; Sociology. Administered by Department of Community, Agriculture, Recreation and Resource Studies. R: Open only to juniors or seniors. SA: PRM 470  
Concepts, principles, models, and skills for community and economic development. Community participation in local development initiatives.

490 **Independent and Supervised Study**  
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 7 credits in all enrollments for this course. P: (EEP 201 or EEP 255) R: Open only to Environmental Economics and Policy majors. Approval of department; application required. SA: PRM 490  
In-depth independent study of topics affecting public resource management. Complementary with previous coursework, adapted to career aspirations.

493 **Professional Internship in Environmental Economics and Policy**  
Fall, Spring, Summer. 3 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (EEP 201 and EEP 255) R: Open only to juniors or seniors in the Environmental Economics and Policy major. Approval of department; application required. A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CSS 493, EEP 493, FIM 493, FW 493, HRT 493, PKG 493, PLP 493, PRR 493, and RD 493. SA: PRM 493  
Supervised professional experience in agencies, organizations or businesses related to environmental economics and policy.

**ENVIRONMENTAL ENE ENGINEERING**

**Department of Civil and Environmental Engineering**

**College of Engineering**

427 **Environmental Toxicology and Society**  
Spring of odd years. 3(3-0) Interdepartmental with Animal Science; Sociology. Administered by Department of Animal Science. RB: (ISB 200 or ISB 202 or ISB 204 or ISB 206H or BMB 200 or BS 111 or BS 110)  
Impact of environmental chemicals on health and modern society. Cellular and organ functions and their interface with the environment. Limitations of scientific investigation and environmental regulations.

800 **Environmental Engineering Seminar**  
Fall, Spring. 1(1-0) R: Open only to Environmental Engineering majors. Current research in environmental engineering.

801 **Dynamics of Environmental Systems**  
Spring. 3(3-0)  
Principles of mass balance, reaction kinetics, mass transfer, reactor theory in environmental engineering.

802 **Physicochemical Processes in Environmental Engineering**  
Fall. 3(3-0) RB: (ENE 801)  
Physical and chemical principles of air and water pollution control and environmental contaminants in water, air and soils.

804 **Biological Processes in Environmental Engineering**  
Fall. 3(3-0) RB: (ENE 801 or concurrently)  
Engineering of microbial processes used in wastewater treatment, in-situ bioreclamation, and solid waste stabilization.

806 **Laboratory Feasibility Studies for Environmental Remediation**  
Spring. 3(2-4) RB: (ENE 802 and ENE 804) R: Open only to graduate students in Environmental Engineering, Environmental Engineering-Environmental Toxicology, and Environmental Engineering-Urban Studies. Not open to students with credit in ENE 803 or ENE 805.  
Analysis and characterization of contaminants in soil or water. Conceptual and preliminary design of treatment systems. Use of treatability studies to evaluate treatment options. Oral presentations and preparation of consulting reports with design recommendations.

807 **Environmental Analytical Chemistry**  
Fall. 3(3-0) R: Open only to Environmental Engineering majors. Techniques for measurement and analysis in environmental engineering. Sample preparation. Quality assurance.

808 **Environmental Analytical Chemistry Laboratory**  
Spring. 1(0-3) RB: (ENE 807) R: Open only to Environmental Engineering majors. Laboratory work in environmental analytical chemistry.

**ENVIRONMENTAL ESP SCIENCE AND POLICY**

**College of Social Science**

801 **Physical, Chemical, and Biological Processes of the Environment**  
Fall. 3(3-0) RB: Bachelor's or Master's in appropriate discipline for specialization. SA: Approval of college. SA: SSC 801  

802 **Human Systems and Environment**  
Fall. 3(3-0) RB: Bachelor's or Master's in appropriate discipline for specialization. R: Approval of college. SA: SSC 804  
Anthropological, economic, geographical, legal, political, and sociological concepts of human systems and environmental change.