

Senate Reference No. 00-16

TO: Fort Wayne Senate

FROM: Margit Codispoti, Chair

Curriculum Review Subcommittee

DATE: March 21, 2001

RE: Proposal for an *Environmental Studies Major* in the Bachelor of Science in Public Affairs for the School of Public and Environmental Affairs.

The Curriculum Review Subcommittee has reviewed the proposal for the Environmental Studies Major from the School of Public and Environmental Affairs and has voted to inform the Senate that the proposal requires no Senate review.

Approve

Disapprove

Absent

M. Codispoti

B. Salmon

T. Guthrie

J. Moore

C. Lawton

D. Mansour-Cole

G. Mourad

K. Murphey

D. Oberstar

B. Resch

R. Narang

PROPOSED ENVIRONMENTAL STUDIES MAJOR

BACHELOR OF SCIENCE IN PUBLIC AFFAIRS

Rationale

The School of Public and Environmental Affairs at Indiana University-Purdue University, Fort Wayne currently offers a Bachelors in Public Affairs degree with four different majors: Public Management, Health Services Administration, Criminal Justice, and Legal Studies. Responding both to student requests and the long tradition of interest in, and orientation to, environmental policy matters by the School, we now propose a new major in Environmental Studies. This is a major that is now being offered on numerous campuses throughout the United States. On our campus, the major would provide students with a strong interdisciplinary background in the social, cultural, economic, political, biological, chemical, geological and other factors that are shaping environmental issues in contemporary society and the variety of policy responses being proposed to address these concerns. This major would provide a strong background for students who wish to further pursue their education at the graduate level, or for those who will seek employment in the public, non-profit, or private sectors.

Resources

The implementation of this major would require *no additional resources* for SPEA at IPFW. Currently, all BSPA students are required to take SPEA E162 Environment and People; this course provides an overall introduction to the subject matter of the major. Majors would then be required to take five SPEA courses all of which are now offered on a regular basis on our campus. These include SPEA E272 Introduction to Environmental Science, which is offered once a year; SPEA H316 Environmental Health, which is offered once every two years (and could be offered every year if demand increases); SPEA H416 Environmental Health Policy, which is offered every other year (and could be offered every year if demand increases); SPEA E400 Democracy and the Environment, which is offered every year; and SPEA V376 Law and Public Policy, which is offered every year. In addition, in consultation with the Environmental Studies Director, students will select four additional courses to complete their major from an interdisciplinary list of courses currently being offered on the IPFW campus. Other courses may be deemed acceptable by the Environmental Studies Director, as well.

Course Descriptions

Major (27 credit hours)

Required Courses: 15 credit hours

The following five courses are required of all Environmental Studies Majors:

SPEA E272 Introduction to Environmental Sciences (3 cr.)

Application of principles from the life and physical sciences to the understanding and management of the environment. Emphasis will be placed on (1) the physical and biological restraints on resource availability and use, and (2) the technological and scientific options to solving environmental problems.

SPEA H316 Introduction to Environmental Health (3 cr.)

An orientation to the broad concerns of environmental and health interactions. Topics considered include vector control and sanitation, air quality control, water and wastewater treatment and quality control, solid and hazardous waste management, industrial hygiene, radiation safety, and public safety as well as related policy and administrative techniques.

SPEA H416 Environmental Health Policy (3 cr.)

Study of professional requirements and duties of the environmental health functions within health agencies; consideration of applicable laws and standards in each environmental health function; environmental evaluation, implementation, and personnel responsibilities.

SPEA E400 Environment and Democracy (3 cr.)

P: SPEA E272. This course is designed to: (1) orient students to the basis for common and conflicting interests in environmental policy disputes; (2) develop in students the skills needed for the analysis, design, and evaluation of conflict and dispute resolution mechanisms appropriate to a range of environmental policy issues; and (3) involve students in the application of these mechanisms to local, state, federal and global environmental policy disputes in order to better understand their implications for democratic deliberation.

SPEA V376 Law and Public Policy (3 cr.)

The purpose of this course is to provide a basic understanding of the origins, process, and impact of law in the making and implementing of public policy. The course's major

objective is to provide students with the substantive concepts necessary to understand the judicial system and law in its various forms.

Elective Courses: 12 credit hours

Four courses selected from the following list (or other courses with the permission of the Environmental Studies Director) are also required for the Environmental Studies Major:

AGRY 255 Soil Science (3 cr.)

P: one year college chemistry or consent of instructor. Differences in soils; soil genesis; physical, chemical, and biological properties of soils; relation of soils to problems of land use and pollution; soil management relative to tillage erosion, drainage, moisture supply, temperature, aeration, fertility, and plant nutrition. Introduction to fertilizer chemistry and use.

ENTM 306 General Applied Entomology (2 cr.)

A general course on insect structure, function, biology, ecology, and population management. Designed with the ENTM 307 laboratory series for all agricultural students who want a basic course in entomology.

FNR 225 Dendrology (3 cr.)

P: BIOL 108 or consent of instructor. Field identification, taxonomy, and silvical characteristics of forest trees and shrubs. One Saturday field trip is required.

ANTH E320 Indians of North America (3 cr.)

P: E105. An examination of the political, economic, ecological, religious, kinship, and warfare patterns of representative Native American groups before and at the time to European contact. *Approved by Arts and Sciences for the Cultural Studies (Non-Western Culture) requirement.*

ANTH E401 Ecology and Culture (3 cr.)

P: E105. How human beings, nature, and culture interrelate. Examination of the varied approaches used in hunting, agricultural, and industrial societies for adapting to the physical environment. *Approved by Arts and Sciences for the Cultural Studies (Non-Western Culture) requirement.*

*BIOL 217 Intermediate Ecology (3 cr.)

P: 117 and 119 or equivalent. Ecological principles of populations, communities, and ecosystems; interaction of biotic and abiotic factors regulating population and community structure; case studies, field studies, and simulation models of life history attributes,

competition, predation, parasitism, and mutualism. This course is open only to science majors. Instructor's permission required for non-biology majors. (Fall)

****BIOL 349 Environmental Science (3 cr.)**

P: junior or senior class standing. Examines current major environmental issues through an investigation of the scientific and political aspects of human population growth, degradation of natural resources, and environmental regulations. Cannot be used as a Group A or B elective for biology majors. (Spring)

COM 316 Controversy in American Society (3 cr.)

P: 114 or consent of instructor. analysis of selected debates in major American controversies of social significance. Critical examination of the argument, personalities, and oral and written strategies employed in public debates on political, moral, and social issues.

GEOL G300 Environmental and Urban Geology (3 cr.)

P: two college-level science courses, including G100 or G103 or GEOG G107, or written consent of instructor. Significance of regional and local geologic features and processes in land use. Use of geologic factors to reduce conflict in utilization of mineral and water resources and damage from geologic hazards. Field trips.

LSTU L240 Occupational Health and Safety (3 cr.)

Elements and issues of occupational health and safety. Emphasis on the union's role in the implementation of workplace health and safety programs, worker and union rights, hazard recognition techniques, and negotiated and statutory remedies, in particular the Occupational Safety and Health Act of 1970.

PHIL 328 Ethics and Animals (3 cr.)

A study of traditional philosophical positions on questions of animal rights. Topics covered typically include human rights and doctrines of duty and obligation, vivisection, animals and food, extinction, the pet industry, hunting, the fur industry, and animal-rights organizations.

POLS Y367 International Law (3 cr.)

P: Y109 or consent of instructor. Sources and consequences of international law; relationship to international organizations and world order; issues of national sovereignty, human rights, conflict resolution, international property rights, world trade, environmental change, and other topics. Eligible for graduate credit.

SPEA V365 Urban Development and Planning (3 cr.)

P: SPEA V264 and SPEA K300. This course identifies the major problems associated with urban development in the United States, and investigates the potential of public planning strategies and tools to deal with these problems. An emphasis is placed on the application of analytical approaches to problem definition and solution.

SPEA V372 Government Finance and Budgets (3 cr.)

Study of fiscal management in public agencies, including revenue administration, debt management, and public budgeting. Emphasis will be given to the fiscal processes in state and local agencies.

SPEA V380 Internship in Public Affairs (1-6 cr.)

P: permission of instructor. Open to interested students upon approval of the faculty. Students are placed with public agencies or governmental units for assignment to a defined task relevant to their educational interests in public affairs. Tasks may involve staff work or research. Full-time participants may earn up to 6 credit hours. May be repeated for credit. Course is graded S/F (Satisfactory/Fail).

SPEA V390 Readings in Public and Environmental Affairs (1-3 cr.)

P: permission of instructor. Independent readings and research related to a topic of special interest to the student. Written report required. May be repeated for credit.

SPEA V450 Contemporary Issues in Public Affairs (1-3 cr.)

Extensive analysis of selected contemporary issues in public affairs. Topics vary from semester to semester.

SPEA V490 Directed Research in Public and Environmental Affairs (1-3 cr.)

To be arranged with the individual instructor and approved by the chairperson of the undergraduate program. May be repeated for credit.

SOC S309 The Community (3 cr.)

P: S161 and ENG W233 or SOC S260 (or equivalent), or consent of instructor. Sociological definitions of community; theories of community and community organization; social, political, and economic factors that contribute to community organization and disorganization; alternative models of community development and planning.

SOC S407 Society of the Future (3 cr.)

P: S161 and ENG W233 or SOC S260 (or equivalent), or consent of instructor.
Examination of social, cultural, and technological trends in the modern world. Creation of the society of the future through class discussion and game playing.

* Biology 117 and Biology 119 will be listed as suggested courses to fulfill the Natural Science portion of the General Education Requirements.

** Biology 349 will be acceptable as a substitute for SPEA E272.