### 410. Environmental Toxicology

Winter. 4(4-0) B S 212, BCH 401. Interdepartmental with and administered by the College of Natural Science.

Pesticides and effects of toxic chemicals in soils, plants, wildlife, and aquatic systems. Interactions between chemicals and the environment which influence their fate and ecological importance. Approved through Fall 1989.

### 425. Agriculture and Natural Resources Seminar

Spring. 2(2-0)

Current agricultural, natural resources, and environmental problems and solutions as presented by discussion leaders from various disciplines, arranged by undergraduate students.

### 445. Pest Management: Pesticide Chemistry and Application Systems for Plant Protection

Fall. 5(3-6) CEM 143, ENT 425, HRT 402 or CSS 402. BOT 405 or concurrently or approval of instructor. Interdepartmental with and administered by the College of Natural Science.

A broad overview of pesticide chemistry, efficient usage, environmental fate, legislation and application techniques.

### 466. Pest Management: Systems Management for Plant Protection (ANR 444.)

Winter. 4(3-0) NSC 445, NSC 446 or approval of instructor. Interdepartmental with and administered by the College of Natural Science.

Designed to integrate knowledge and improve ability in arriving at pest management decisions on varying complexity in the fields of agronomy, wildlife, horticulture, entomology, and plant pathology.

### 475. International Study in Agriculture and Natural Resources

Spring, Summer. 3 to 9 credits.

Study-travel experience emphasizing contemporary problems affecting agriculture in the world, national, and local communities. Field trips, case studies, interviews with leading experts, government officials, community leaders. Supervised individual study.

### 491. Natural Resources and Modern Society

Spring. 3(3-0) Juniors. Interdepartmental with the department of Forestry, and Resource Development. Administered by the Department of Forestry.

A survey of the social and economic significance of natural resources in diverse industrial and urban society. Current problems of natural resources management and use are examined in terms of the society in which they exist.

### 501. Issues in American Civilization

Fall. 3(3-0) May reenroll for a maximum of 9 credits. Sophomores. Selected issues in American life past and present, with materials drawn from such disciplines as history, social sciences, philosophy, literature and the arts. Topics vary.

### 503. The Natural Environment: Perceptions and Practices

Fall. 4(4-0) Sophomores. Interdepartmental with Lyman Briggs School. Administered by Lyman Briggs School.

Factors which have influenced U.S. environmental attitudes as reflected in art and literature. Ways in which changing attitudes have led to changes in legislation and practice.

### 504. Popular Culture and Technical Change

Winter. 4(4-0) Juniors or approval of department. Interdepartmental with and administered by Lyman Briggs School.

Interrelationships among elements of mass culture and technical change. Introduction to relevant research methods.

### 505. Natural Resource Economics

Fall. 4(4-0) EC 200 or EC 201. Interdepartmental with the departments of Fisheries and Wildlife, Forestry, Park and Recreation Resources and Resource Development. Administered by the Department of Forestry.

Basic economic and institutional principles and techniques that govern the production and consumption of renewable natural resources. Natural resource valuation, project analysis, and distributional considerations.

### 452. Agricultural and Rural Development in Developing Nations

Fall. 3(3-0) PAM 201 or EC 201; PAM 260 recommended. Interdepartmental with Public Affairs Management, and Food Systems Economics and Management. Administered by Food Systems Economics and Management.

Traditional agricultural systems and the incentive environment for economic growth in rural areas. Adjustment to technological, institutional and human change. Strategies for rapid agricultural transformation.

### AGRICULTURAL TECHNOLOGY AND SYSTEMS MANAGEMENT

See Agricultural Engineering.

### AGRICULTURE AND NATURAL RESOURCES ANR

#### College of Agriculture and Natural Resources

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<tr>
<th>Course Code</th>
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<td>6 to 12</td>
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### Selected Topics

- Environmental Toxicology
- Agriculture and Natural Resources Seminar
- Pest Management: Pesticide Chemistry and Application Systems for Plant Protection
- Pest Management: Systems Management for Plant Protection
- Natural Resources and Modern Society
- Issues in American Civilization
- The Natural Environment: Perceptions and Practices
- Popular Culture and Technical Change
- Natural Resource Economics
- Agricultural and Rural Development in Developing Nations