

**971. Contrapuntal Techniques**  
Winter of even-numbered years, Summer. 3(3-0) MUS 970.  
Continuation of MUS 970.

**972. Contrapuntal Techniques**  
Spring of even-numbered years, Summer. 3(3-0) MUS 971.  
Continuation of MUS 971.

**999. Research**  
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

**NATURAL RESOURCES N R**

**College of Agriculture and Natural Resources**

**202. Soils and Man's Environment**  
Winter. 3(3-0) Interdepartmental with the departments of Crop and Soil Sciences, Resource Development, and Fisheries and Wildlife and administered by the Department of Crop and Soil Sciences.

Use of soil and water resources in a technological society as it relates to environmental quality. Nature of pollution problems and their possible solutions. Food production and world population.

**220. Plants and Their Environment**  
Winter. 3(3-0) Interdepartmental with and administered by the Department of Forestry.

Fundamental ecological relationships between various climatic, edaphic and biotic environmental factors of the ecosystem and plant response, including structure, function and evaluation of species.

**275. Exploring International Agriculture**  
Spring. 3(3-0) Interdepartmental with and administered by Agriculture.

Exploration of overseas assignments with international agencies; potential world food actualities and potentialities; special problems of the tropics compared with those in temperate regions.

**350. Leadership Development for Agriculture and Natural Resources**

Winter, Spring. 3(3-0) May reenroll for a maximum of 6 credits. Approval of department. Interdepartmental with and administered by Agriculture.

Leadership development. Preparation for community leadership. Firsthand look at social, economic, and political problems. Series of seminars, interviews, field trips. Emphasis on awareness, action, and involvement. Field trips required.

**399. Agriculture Internship**  
Fall, Winter, Spring, Summer. Zero to 10 credits. (10 credits. See page A-2 item 3.) Juniors and approval of department. Interdepartmental with and administered by Agriculture.

Professionalized experiences in a student's major. Supervision and evaluation conducted by faculty and cooperating agencies.

**425. Agriculture and Natural Resources Seminar**  
Spring. 2(2-0) Interdepartmental with and administered by Agriculture.

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

**444. Pest Management I: Systems Management for Plant Protection**  
(437.) Fall. 4(3-2) FSM 200 or EC 201.

Interdepartmental with Agriculture and the College of Natural Science and administered by the College of Natural Science.

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

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

(435.) Winter. 5(3-4) CEM 132. Interdepartmental with Agriculture and the College of Natural Science and administered by the College of Natural Science.

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

**446. Pest Management III: Biological Systems for Plant Protection**

(436.) Spring. 3(3-0) ENT 430, BOT 405, HRT 402 or CSS 402. Interdepartmental with Agriculture and the College of Natural Science and administered by the College of Natural Science.

Management of plant pests utilizing host resistance, cultural practices, legislation, and biological systems.

**450. Natural Resource Administration**

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

Concepts and methods of administering wildland properties. The legal, economic and social environment. Benefit-cost analysis of management changes. Unit organization, personnel management and accounting. Presents a systems view of administration.

**455. Natural Resource Economics**

Winter. 4(4-0) FOR 450 or approval of department. 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 political principles and techniques that govern the production and consumption of forest land products, including basic forest valuation procedures.

**475. International Studies in Agriculture and Natural Resources**

Spring, Summer. 3 to 9 credits. Approval of the college. Interdepartmental with and administered by Agriculture.

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 departments of Forestry and Resource Development and administered by the Department of Forestry.

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

**NATURAL SCIENCE N S**

**University College**

Students who have not taken any of the required natural science courses, may take any three course from the following list.

N S 115, 122, 125, 135, 142, 152, 162, 171H, 172H, 173H

OR

If you are enrolled in ATL 101, you may take N S 181, 182, 183.

Students who have already taken one or two natural science courses should refer to the chart below to complete the University requirements of 12 credits in Natural Science.

You may take		if you have not had credit in	
N S	115	111, 116, 121, 131, 140, 151, 161, 181, 192, 322	
	122	193	
	125	112, 117, 132, 141, 182, 193, 323	
	135	113, 120, 133, 150, 160, 183, 191, 321	
	142	118, 193	
	152	193	
	162	193	
	171H	192	
	172H	193	
	173H	191	
	181	115, (111, 116, 121, 131, 140, 151, 161, 192)	
	182	125 (112, 117, 132, 141, 193)	
	183	135 (113, 120, 133, 150, 160, 191)	

**115. The Nature and Continuity of Life**

Fall, Winter, Spring, Summer. 4(3-2)

A—The development and testing of scientific concepts as examples of man's attempt to understand the world in which he lives. Selected topics from the life sciences illustrate the nature of scientific investigation.

B—Theories of the origin, development and structure of life and the universe of which it is a part. Examination of contemporary problems associated with defining life and death.

C—Consideration of social and ethical issues relating to our increasing control of reproduction and heredity. Reproduction and heredity from molecular, cellular and organismic perspectives, including human structure and function.

D—The nature of living things, contrasting various scientific and non-scientific views. The implications of the modern scientists understanding of life for our beliefs and values.

**122. Biosocial Evolution of Man**

(193B.) Fall, Winter, Spring. 4(3-2)

Man's current understanding of himself and his beliefs as products of biological and cultural evolution. Implications for man's future.