NATURAL RESOURCES

College of Agriculture and Natural Resources

202. Soils and Man's Environment
Winter. 3(3-0) Interdepartmental with departments of Crop and Soil Sciences, Resources 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 Forestry Department.

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 be repeated for a maximum of 6 credits. Approval required. Interdepartmental with and administered by Agriculture.


399. Agriculture Internship
Fall, Winter, Spring, Summer. Zero to 10 credits. (10 credits for 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. (2-0) 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.

435. Pest Management I: Pesticide Chemistry and Application Systems for Plant Protection
Fall. 3(3-0) CEM 132. Interdepartmental with Agriculture and the College of Natural Sciences. Administered by College of Agriculture.

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

See page A-2 Item 3.

436. Pest Management II: Biological Systems for Plant Protection
Winter. 3(3-0) ENY 430, BOT 405, HRT 402 or CSS 402. Interdepartmental with Agriculture and the College of Natural Science. Administered by the College of Natural Science.

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

437. Pest Management III: Systems Management for Plant Protection
Spring. 4(3-2) NS 435 and 436, FPM 200 (or the equivalent). Interdepartmental with Agriculture and the College of Natural Sciences. 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.

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.


455. Natural Resource Economics
Winter. 4(4-0) May be repeated for a maximum of 4 credits. Approval required. Interdepartmental with Forestry, Park Management, and Recreation Resources.

Basic economic and political principles and techniques that govern the production and consumption of forest land products, including basic forest valuation procedures.

471. Environmental Topics in Nonmetropolitan Regions
Fall. 4(4-0) Nomination of students by own department and approved by participating faculty. Interdepartmental with the College of Natural Science and Agriculture.

Environmental topics in nonmetropolitan regions including issues on: production agriculture, service industries, nonagricultural uses, rural urban balance, discussion topics and case studies.

475. International Studies in Agriculture and Natural Resources
Summer. 3 to 9 credits. Approval of 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
Fall, Winter, Spring. 3(3-0) Juniors. Interdepartmental with the Forestry and Resource Development Departments and administered by Forestry Department.

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.

See page A-2 Item 3.

NATURAL SCIENCE

University College

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

N S 115, 132, 125, 135, 142, 152, 169, 171H, 173H, 175H

OR

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

Students who already have 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

N S 111, 116, 121, 131, 140, 151, 161, 181, 183, 322

N S 129

N S 132, 137, 141, 162, 183, 323

N S 135

N S 120, 130, 150, 160, 183, 321

N S 145

N S 115, 121, 127, 131, 145, 162, 183, 325

N S 155

N S 133, 130, 150, 160, 161, 321

N S 165

N S 111, 116, 121, 131, 140, 151, 161, 181, 182, 322

N S 182

N S 112, 117, 132, 141, 183, 325

N S 183

N S 113, 120, 133, 150, 160, 191, 321

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. 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.

B. Consideration of social and ethical issues relating to our increasing control of reproduction and fertility. Reproduction and heredity from molecular, cellular and organismic perspectives, including human fertility and contraception.

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. Biocultural 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.

125. Time and Change in Nature
Fall, Winter, Spring. Summer. 4(3-2)

A. Man's attempts to explain the present in terms of past events are explored through selected topics from the life sciences and earth sciences. Stresses the role of contingency in science and the nature of scientific evidence.

B. Heredity, evolution and diversity of life are examined from the viewpoint of the biological and cultural development of the human species. Evolutionary relationships between humans and their environment.

C. The origins and evolution of man on earth and living things are studied as vital and related problems. Emphasis on problem-solving in science and implications of evolutionary concepts on human societies.

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