Agriculture and Natural Resources - Descriptions of Courses

835. Research in Building Construction
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

880. Special Problems
Fall, Winter, Spring. Summer. 1 to 4 credits. May enroll for a maximum of 9 credits. Approval of department.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

AGRICULTURE AND NATURAL RESOURCES ANR

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 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. Approved through Spring 1981.

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

230A. Introduction to Careers in Vocational and Practical Arts Education: Agriculture and Natural Resources
(AG 124A, 124B, 124C.) Fall, 2(2-0). Open only to teaching majors or minors in agriculture and natural resources. Interdepartmental with and administered by the College of Education.
To assist agriculture and natural resources teachers in developing concepts pertaining to the nature and functions of persons in agriculture and natural resources occupations and development of competencies which will assist in making their students aware of these functions.

275. Exploring International Agriculture
(AG 275.) Spring. 3(3-0).
Exploration of overseas assignments with international agencies; potential world food actualities and potentialities; special problems of the tropics compared with those in temperate regions.

341. Energy in the Food System
(AG 341.) Winter, 3(3-0). Juniors or seniors. Interdepartmental with and administered by Agricultural Engineering Technology.

350. Leadership Development for Agriculture and Natural Resources
(AG 350.) Winter, Spring. 3(3-0). May reenroll for a maximum of 6 credits. Approval of department.

399. Professional Internships in Agriculture and Natural Resources

401. Agriculture and Natural Resources Communications Internship
(AG 401.) Fall, Winter, Spring. Summer. 1 to 6 credits. May enroll for a maximum of 6 credits. AG 401, approval of department.
Internship with professionals in communications field with emphasis on student's areas of interest: writing, radio, TV, publications, etc.

420. Agriculture and Natural Resources Communications Internship
Fall. 4(4-0). Fall, Winter, Spring, Summer. 1 to 6 credits. May enroll for a maximum of 6 credits. AG 401, approval of department.

440. Environmental Toxicology
(AG 440.) Winter, 4(4-0). B S 212, BC 112. Interdepartmental with and administered by the College of Natural Science.
Fate and effects of toxic chemicals in soil, plants, wildlife, and aquatic systems. Interactions between chemicals and the environment which influence their fate and ecological importance.

455. Pest Management I: Systems Management for Plant Protection
(AG 455, AG 444.) Fall. 3(3-0). S M 200 or EC 201. Interdepartmental with and administered by the College of Natural Science.
Designed to integrate knowledge and improve ability in 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
(AG 435, AG 445.) Winter. 3(3-0). C E M 132. Interdepartmental with 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
AG 435, AG 446. Spring. 3(3-0). ENT 402. Interdepartmental with and administered by the College of Natural Science.
Management of pests utilizing host resistance, cultural practices, legislation, and biological systems.

450. Natural Resource Administration
(N R 450.) 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
(N R 455.) 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.

462. Agricultural and Rural Development in Developing Nations
(AG 462.) 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.

475. International Studies in Agriculture and Natural Resources
(AG 475.) Spring. 3(3-0)

480. Selected Topics
Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 9 credits if different topics are taken. Approval of department.

485. Selected Topics
Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 6 credits if different topics are taken. Approval of department.
A-14

Courses

101. Issues in American Civilization
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 9 credits. Not applicable to major requirements. Selected topics in American life past and present, with materials drawn from such disciplines as history, social sciences, philosophy, literature and the arts. Topics vary.

378. Popular Culture and Technical Change
Winter. 4(4-0) Juniors or approval of department. Interdepartmental with and administered by Lyman Briggs College. Interrelationships among elements of mass culture and technological change. Introduction to relevant research methods.

410. Perspectives in American Studies
Fall. 3 credits. Juniors in American Studies or approval of American Studies Committee. Methods and significant works, for majors in the American Studies program. Offered by members of the relevant departments.

411. Problems in American Civilization
Winter, Spring. 3 credits. Majors must reenroll for a maximum of 6 credits. AMS 410. Juniors in American Studies or approval of American Studies Committee. Seminar approach to selected problems in American life employing the objectives and approaches of interdisciplinary studies. Offered by members of relevant departments, for majors in the American Studies program.

AMERICAN STUDIES

AMERICAN THOUGHT AND LANGUAGE

AMS

College of Arts and Letters

To satisfy the University General Education requirement, a student must take one course in each of the following groups. Additional courses may be taken for credit:

1. 121 or 121E, 131, 141, 151, 161, 171, 181, 191H
2. 122 or 122E, 132, 142, 152, 162, 172, 182, 192H
3. 123 or 123E, 133, 143, 153, 163, 173, 183, 193H

101A. Comprehensive English
Fall, Winter, Spring, Summer. 3(3-1) Admission by examination or approval of department. Students may not receive credit in more than one of the following courses: ATL 101A, ATL 101B, ATL 101E. Instruction and practice in reading and writing. Emphasis upon mastery of fundamental skills needed for a variety of reading and writing assignments.

101E. Comprehensive English—Experimental
Fall, Winter, Spring. 3 credits. Admission by examination or approval of department. Students may not receive credit in more than one of the following courses: ATL 101A, ATL 101B, ATL 101E. Instruction in reading and writing. Instruction in reading is emphasized.

102. Comprehensive English
Fall, Winter, Spring, Summer. 3(3-1) ATL 101A or ATL 101B or approval of department. Students may not receive credit in both ATL 102 and ATL 102E. Continuation of ATL 101 with emphasis on writing and reading.

102E. Comprehensive English—Experimental
Winter. 3 credits. ATL 101E or approval of department. Students may not receive credit in both ATL 102 and ATL 102E. Continuation of ATL 101E. Approved through Spring 1981.

103. Comprehensive English
Fall, Winter, Spring, Summer. 3(3-1) ATL 102 or approval of department. Students may not receive credit in both ATL 103 and ATL 103E. Continuation of ATL 102 with emphasis on reading and writing on American cultural topics.

103E. Comprehensive English—Experimental
Spring. 3 credits. ATL 102E or approval of department. Students may not receive credit in both ATL 103 and ATL 103E. Continuation of ATL 102E. Approved through Spring 1981.

121. American Expression
Fall, Winter, Spring, Summer. 3(3-0) Satisfactory grade on English proficiency examination or in Comprehensive English. Students may not receive credit in both ATL 121 and ATL 121E. Aims to improve the student’s ability to read and write and to acquaint him with his American heritage. Selected reading and theme topics.

121E. American Expression—Experimental
Fall. 3 credits. Admission by examination or approval of department. Students may not receive credit in both ATL 121 and ATL 121E. Approved through Spring 1981.

122. American Expression
Fall, Winter, Spring, Summer. 3(3-0) Three credits in the first term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English. Students may not receive credit in both ATL 122 and ATL 122E. Aims to improve the student’s ability to read and write and to acquaint him with his American heritage. Selected reading and theme topics.

122E. American Expression—Experimental
Winter. 3 credits. Completion of ATL 121E or approval of department. Students may not receive credit in both ATL 122 and ATL 122E. Approved through Spring 1981.

123. American Expression
Fall, Winter, Spring, Summer. 3(3-0) Three credits in the second term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English. Students may not receive credit in both ATL 123 and ATL 123E. Aims to improve the student’s ability to read and write, and to acquaint him with his American heritage. Selected reading and theme topics.

123E. American Expression—Experimental
Spring. 3 credits. Completion of ATL 122E or approval of department. Students may not receive credit in both ATL 123 and ATL 123E. Approved through Spring 1981.

131. Major Currents in American Experience
Fall, Winter, Spring, Summer. 3(3-0) Satisfactory grade on English proficiency examination or in Comprehensive English. Investigation into the significance of Americans place on individual search for meaning and its effect on his American heritage. Subject matter is the focus for improving reading and writing abilities.

132. Major Currents in American Experience
Fall, Winter, Spring, Summer. 3(3-0) Three credits in the first term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English. The dreams and realities by which Americans have been inspired and betrayed are emphasized. Subject matter is the focus for improving reading and writing abilities.