AMERICAN STUDIES

ACADEMIC AND NATURAL

of

Courses

491. Natural Resources and Modern Society
(N R 491) Spring, 3-3-0. Juniors,
Interdepartmental with the departments of Forestry and Resource Development.
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.

AMERICAN THOUGHT AND LANGUAGE

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 (extra) 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.

101B. 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. Instruction in reading is emphasized.

101E. Comprehensive English-Experimental
Fall, 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 and practice in reading and writing. Approved through Spring 1981.

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 1991.

117. Use of Libraries
Fall, Winter, 1-1-0
The use of libraries, with emphasis on MSU Library. Course will stress knowledge and use of bibliographic and reference resources.

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 122E 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 123E 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 American experience on individual search for meaning and its effect on 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.
133. Major Currents in American Experience
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.
Literary and historical study of the major cultural confrontations among groups and subcultures in America's heterogeneous society. Subject matter is the focus for improving reading and writing abilities.

141. American Humanities
Fall, Winter, Spring, Summer. 3(3-0)
Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with ideas concerning radical social change, and to improve his ability at reading and writing. Selected readings and theme topics.

162. American Radical Thought
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with ideas concerning radical social change, and to improve his ability at reading and writing. Selected readings and theme topics.

191H. Honors Work in American Experience
Fall. 3(3-0) Satisfactory grade in entrance examination.
Students read and write on selected topics to improve their knowledge of the American heritage and their ability at reading and writing.

192H. Honors Work in American Experience
Winter. 3(3-0) Satisfactory grade in the first term of any ATL sequence numbered ATL 121 or above.
Students read and write on selected topics to improve their knowledge of the American heritage and their ability at reading and writing.

193H. Honors Work in American Experience
Spring. 3(3-0) Satisfactory grade in the second term of any ATL sequence numbered ATL 121 or above.
Students read and write on selected topics to improve their knowledge of the American heritage and their ability at reading and writing.

191. American Film
Winter. 3(3-0)
Three credits in the second term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with ideas concerning radical social change, and to improve his ability at reading and writing. Selected readings and theme topics.

171. America on Film
Fall. 3(3-2) Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

172. America on Film
Winter. 3(3-2) Three credits in the first term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

205. Reading for University-Level Understanding
Fall, Winter, Spring. 2(0-4) May reenroll for a maximum of 4 credits.
Individualized instruction in techniques for improving vocabulary, comprehension, rate, study skills and test-taking skills in order to achieve a better understanding of university-level materials.

321. American Humor
Winter. 4(4-0)
Sophomores.
An interdisciplinary study of the relationship between American humor and the developing American experience, especially of the nineteenth and twentieth centuries.

329. Advanced Writing: The Prose Essay
Spring. 4(4-0) Completion of ATL sequence, ENG 213 or approval of department.
Provides instruction in the acquiring of knowledge from the prose essay, making sophisticated inferences from the ideas collected, and formulating and supporting logical thesis in the writing of such essays.

350. American Film
Fall. 3-0
Winter. 3-0
Spring. 4(2-4) May reenroll for a maximum of 8 credits if different topic is taken.
Interdisciplinary study of topics in American culture.

360. Supervised Individual Study
Fall, Winter, Spring. 2 to 4 credits. May reenroll for a maximum of 12 credits. 9 credits in a composition course; approval of department.
Selected students requesting individual study of interdisciplinary problems will work under supervision of University College professors. Variable elective credit will be determined when the student submits project, advisor, and department approval.

373. American Film
Winter. 3(3-0)
Three credits in the second term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

381. Women in America
Fall. 3(3-0) Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with women's experience in America, and to improve the student's ability at reading and writing. Selected readings and theme topics.

131. American Film
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.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

143. American Humanities
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.
Aims to acquaint the student with his American heritage with emphasis on artistic and literary expression, and to improve his ability to read and write.

151. American Minorities
Fall. 3(3-0)
Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with ideas concerning major cultural topics. Selected readings and theme topics.

161. American Radical Thought
Fall. 3(3-0) Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with ideas concerning radical social change, and to improve his ability at reading and writing. Selected readings and theme topics.

171. America on Film
Fall. 3(3-2) Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

172. America on Film
Winter. 3(3-2) Three credits in the first term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

173. America on Film
Spring. 3(3-2) Three credits in the second term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with cinematic and fictional representation of experience, and to improve his ability at reading and writing. Selected readings and theme topics.

181. Women in America
Fall. 3(3-0) Satisfactory grade on English proficiency examination or in Comprehensive English.
Aims to acquaint the student with women's experience in America, and to improve the student's ability at reading and writing. Selected readings and theme topics.

182. Women in America
Winter. 3(3-0) Three credits in the first term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with women's experience in America, and to improve the student's ability at reading and writing. Selected readings and theme topics.

183. Women in America
Spring. 3(3-0) Three credits in the second term of any ATL sequence numbered ATL 121 or above; or satisfactory performance in Comprehensive English.
Aims to acquaint the student with women's experience in America, and to improve the student's ability at reading and writing. Selected readings and theme topics.
380. The Role of Women in America: Arts and Self
Winter. 4 credits. Junior.
Various art forms by women and the exploration of a feminine sensibility; sex, race, and class interactions; contemporary and historical views of women and themselves; the impact of the media.

381. The Role of Women in America: Movements and Ideology
Spring. 4 credits. Junior.
Key personalities and philosophical currents in the women's movement; biological and cultural myths and realities; the historical role of the family. "The Culture of Romance."

439. Writing the Research Report
Winter, Spring. 4 credits. Junior.
Advanced methods and organization of written research reports will be taught by providing examples, exercises, and writing practice based on research submitted by the students.

449. Technical Report Writing
Winter, Spring. 4 credits. Junior.
Use and understanding of language through writing and editing clear, concise, purposeful technical reports, letters, instructions, proposals.

ANATOMY ANT

College of Human Medicine
College of Osteopathic Medicine
College of Veterinary Medicine

216. Applied Human Anatomy
Fall, Spring. 5 credits. HPR major or minor. Structured anatomy of the various systems of the human body. Concepts of Kinesiological applications.

316. General Anatomy
Fall, Spring. 5 credits. BS 211 or BS 212 or approval of department. Designed to impart the basic concepts of the broad field of anatomy. Special requirements of the various disciplines will be met in their respective laboratories.

420. Microscopic Anatomy
Winter. 5 credits. Medical Technology students or approval of department. Microscopic study of the structure of cells, tissues and organs.

480. Special Problems
Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 15 credits. Approval of department.

505A. Anatomy in Physical Diagnosis
Fall. 1 to 3 credits. HM 305 concurrently. Exercises in which students study systemic anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.

505B. Anatomy in Physical Diagnosis
Winter. 1 to 3 credits. ANT 505A or approval of department. Exercises in which students study regional anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.

505C. Anatomy in Physical Diagnosis
Spring. 1 to 3 credits. ANT 505B or approval of department. Exercises in which students study regional anatomy in a physical diagnosis context. Preparatory self-instruction precedes exercises.

510. Veterinary Gross Anatomy
Fall. 5 credits. First-term veterinary medicine students. Gross anatomy of a representative animal, the dog, is studied. Lecture, dissection of embalmed specimens, study of prosections, slides, models and living animals.

511. Veterinary Histology
Fall. 3 credits. First-term veterinary medicine students. A general histology course for veterinary students which includes a survey of the tissue of the animal body.

512. Veterinary Neuro Anatomy
Winter. 2 credits. Second-term veterinary medicine students. Gross anatomy of the central nervous system in animals emphasizing functional and dysfunctional aspects of pathways and nuclei in dogs as a foundation for clinical neurology.

513. Veterinary Microscopic Anatomy
Winter. 4 credits. Second-term veterinary medicine students. Microscopic anatomy of the digestive, urinary, respiratory, male and female reproductive systems, integumentary system, central nervous system and special sense organs of domesticated animals.

514. Veterinary Comparative Anatomy
Spring. 5 credits. Third-term veterinary medicine students. Lecture, dissection of embalmed specimens and the study of preparations, models and live animals related to the anatomy of the domestic animals.

540. Gross Biomedical Structure
Winter. 1 to 15 credits. May reenroll for a maximum of 15 credits. Admission to a college of medicine; graduate students with approval of department. Regional gross anatomy of the head, thorax, abdomen, pelvis and perineum.

541. Gross Biomedical Structure
Spring. 1 to 15 credits. Admission to a college of medicine; graduate students with approval of department. Regional gross anatomy of the head and neck.

542. Gross Biomedical Structure
Fall. 1 to 15 credits. Admission to a college of medicine; graduate students with approval of department. Regional gross anatomy of the limbs.

543. Microscopic Anatomy
Winter. 3 credits. Human medicine students; approval of department for Graduate students. The principles of microscopic anatomy, utilizing self-instructional units and laboratory experience with organ sections viewed through the light microscope.

544. Human Ontogenesis
Fall. 3 credits. Admission to a college of medicine; graduate students with approval of department. Formal lectures, class conferences and student reports on the normal and abnormal organogenesis of the human embryo and fetus with emphasis on clinical correlations.

545. Neuroanatomy
Spring. 4 credits. Admission to medical school or approval of Neuroscience Committee. Introduction to gross and microscopic anatomy of the human nervous system, related basic neurophysiologic concepts and to a problem-solving approach to the diagnosis of nervous system disease.

560. Medical Histology
Summer. 4 credits. Admission to a college of medicine or approval of department. Structural and functional characteristics of basic cells, tissues and organ systems. Emphasis on core concepts and visual discrimination.

563. Osteopathic Medical Anatomy
Fall. 4 credits. Admission to a college of medicine or approval of department. Medically oriented problem-solving neuroanatomy with laboratory. Structure of the human nervous system is correlated with normal function, clinical testing and classical lesions encountered in medical practice.

565. Introduction to Human Gross Anatomy
Summer. 4 credits. Admission to a college of medicine or approval of department. Core concepts in regional, systemic and topographical human gross anatomy: Prosection, discussion and lecture methods using audiovisual aids and frequent review.

580. Special Problems
Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 15 credits. Admission to professional program in the College of Human Medicine, College of Osteopathic Medicine or the College of Veterinary Medicine, and approval of department. Biomedical research, gross anatomy, histology, neurology, immunology or embryology.

813. Problems in Anatomy
Fall, Winter, Spring. Variable credit. May reenroll for a maximum of 15 credits. Basic disciplines in various areas and approval of department. Various anatomical fields such as gross anatomy, histology, hematology, tissue culture, cytology, neurology and embryology will be studied.

815. Anatomy of the Nervous System
Fall. 3 credits. Approval of department. Developmental, gross and microscopic anatomy of the nervous system. Organizational and functional aspects of the peripheral and central nervous system are stressed. Gross demonstrations include brain and dog dissections.