Agriculture and Natural Resources—ANR

475 International Studies in Agriculture and Natural Resources
Fall, Spring, Summer. 2 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department; application required. Study-travel experience emphasizing contemporary problems affecting agriculture and natural resources in the world, national and local communities. Case studies and interviews with officials, community leaders and leading professionals.

489 Integrated Approaches to Agriculture and Natural Resources Problems (W)
Fall, Spring. 3(2-2) P.M.: (MTH 110 or MTH 116) and (EC 201 or EC 202) and completion of Tier I writing requirement. R: Open only to seniors in Agriculture and Natural Resources.
Holistic solutions to resource management and allocation: an integrated, multidisciplinary team approach to case study problems.

490 Independent Study in Agriculture and Natural Resources
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Not open to freshmen or sophomores.

491 Selected Topics
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Not open to freshmen or sophomores.

493 Professional Internship in Agriculture and Natural Resources
Fall, Spring. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors in the College of Agriculture and Natural Resources. Supervised individual study in topics related to agriculture and natural resources.

AMERICAN STUDIES AMS

Program in American Studies
College of Arts and Letters

250 American Art
Spring. 3(3-0) Interdepartmental with History of Art; American Studies. Administered by Department of Art and Art History. Major developments and themes in non-indigenous American art (painting, sculpture, architecture, material culture) from its colonial origins through the 20th century.

332 Technology and Culture
Fall. 4(4-0) Interdepartmental with Lyman Briggs School. Administered by Lyman Briggs School. P.M. Completion of Tier I writing requirement. R: Open only to juniors or seniors in the American Studies major or in Lyman Briggs School. History of technology with special emphasis on the interaction of technical innovation and other elements of culture.

335 The Natural Environment: Perceptions and Practices
Spring. 4(4-0) Interdepartmental with Lyman Briggs School. Administered by Lyman Briggs School. P.M. Completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors in the American Studies major or in Lyman Briggs School. American attitudes toward the natural environment and related public and private institutions.

451 American Art through 1875
Spring of even years. 3(3-0) Interdepartmental with History of Art. Administered by Department of Art and Art History. P.M: (HA 120 or HA 121 or HA 250) and completion of Tier I writing requirement. SA: HA 438.
Artistic production in North America from colonial times to 1875, in its cultural context.

453 American Art, 1875-1940
Fall of even years. 3(3-0) Interdepartmental with History of Art. Administered by Department of Art and Art History. P.M: (HA 120 or HA 121 or HA 250) and completion of Tier I writing requirement. SA: HA 456, HA 358
Artistic production in North America from 1875 to 1940, in its cultural context.

480 Seminar in American Material Folk Culture
Spring of odd years. 3(3-0) RB: Coursework in arts, humanities and cultural studies. Understanding American material folk culture and folklore as sources for analysis and appreciation. Methodological approaches and fieldwork techniques.

491 Perspectives in American Studies
Fall. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Methods and significant works in American Studies. Topics vary.

492 Seminar in American Studies
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the College of Arts and Letters or James Madison College or Lyman Briggs School. Selected topics in American life emphasizing interdisciplinary approaches. Topics vary.

855 Seminar in American Art
Spring of odd years. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with History of Art. Administered by Department of Art and Art History. R: Approval of department. Intensive investigation of a topic in the history of American art.

881 American Studies Theory, Methods, and Bibliography
Fall. 3(3-0)
Methods and bibliographical sources of American Studies research. Interdisciplinary approaches to studying American culture.

890 Independent Study
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of college. Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

891 Special Topics in American Studies
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. Special topics supplementing regular course offerings proposed by faculty for graduate students on a group study basis.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of college. Directed research leading to a master's thesis in partial fulfillment of Plan A master's degree requirements.
ANT—Anatomy

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

802 Clinical Surgical Anatomy

813 Problems in Anatomy
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 5 credits in all enrollments for this course. R: Approval of department. Fields such as gross anatomy, histology, tissue culture, cytology, neurology, and embryology.

814 Graduate Seminar
Spring of even years. 1 to 3 credits. R: Open only to graduate students in Anatomy. Supervised practice in evaluating abstracts and delivering oral presentations of anatomical sciences. Organization, timing and effective illustrations.

820 Advanced Neuroanatomy
Summer of odd years. 1 to 5 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department. Current topics in anatomy and physiology and processes of central nervous system cells.

839 Systems Neuroscience
Spring of odd years. 4(4-0) Interdepartmental with Pharmacology and Toxicology, Physiology. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Agriculture and Natural Resources, Natural Science, and Veterinary Medicine. Anatomy, pharmacology, and physiology of multicellular neural systems. Sensory, motor, autonomic, and chemo-regulatory systems in vertebrate brains.