

- E. Continuation of 241E. Deals with the medieval and early modern stages of Western culture.
- H. Continuation of 241H. Honors track. Deals with the medieval and early modern stages of Western culture.

**243. Humanities**

*Fall, Winter, Spring, Summer. 4(4-0)  
Four credits in a 242 track.*

- A. Continuation of 242A. Considers aspects of modern Western culture since the Enlightenment.
- B. Continuation of 242B. Considers aspects of modern Western culture since the Enlightenment.
- C. Continuation of 242C. Considers aspects of modern Western culture since the Enlightenment.
- D. Continuation of 242D. Considers aspects of modern Western culture since the Enlightenment.
- E. Continuation of 242E. Considers aspects of modern Western culture since the Enlightenment.
- H. Continuation of 242H. Honors track. Considers aspects of modern Western culture since the Enlightenment.

**250. Traditions of the Orient**

*Fall, Winter, Spring, Summer. 4(4-0)  
May re-enroll for credit when new area is given.*

Major cultural traditions of the Orient. Focus is upon historical views of god, man, and society as seen in sacred and secular literature and in works of art.

- A. China
- B. India
- C. Japan
- D. Islamic Civilization

**251. Traditions of Africa**

*Winter, Spring. 4(4-0)*

An interdisciplinary study of major artistic, literary, musical, religious, and philosophical elements of the culture of Subsaharan Africa against the background of the history of the region.

**300. Supervised Individual Study**

*Fall, Winter, Spring. 1 to 4 credits.  
243; 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 secures instructor, adviser, and department approval.

**341. The Humanities in the Contemporary World**

*Winter, Spring. 4(4-0) Approval of department. Not open to Freshmen.*

Interdisciplinary study of the literature, philosophy, religion, architecture, painting, sculpture, music, film, and other performing arts of the era since 1945 as they reflect and influence the character of contemporary civilization.

**HUMAN MEDICINE  
(COLLEGE OF)**

**H M**

**499. Seminar in Medicine and Society**  
*(MED 499.) Fall, Winter, Spring.  
2(3-0) Must re-enroll for a maximum of 6 credits. Human Medicine students.*

Medicine in its wider social and cultural context. Health viewed as an expression of the person's

total functioning—sociocultural, psychological, and biological—with illness regarded as the result of a dysfunction in any one of these areas.

**501. Human Biology and Behavior**

*(MED 501.) Fall. Variable credit.  
May re-enroll for a maximum of 12 credits.  
Year V Human Medicine students.*

An integrative approach to the human organism, utilizing development as a central theme, and focusing upon the prenatal period.

**502. Human Biology and Behavior**

*(MED 502.) Winter. Variable credit.*

*May enroll for a maximum of 12 credits. 502.* Continuation of 501 focusing upon birth and the peri-natal period.

**503. Human Biology and Behavior**

*(MED 503.) Spring. Variable credit.*

*May enroll for a maximum of 9 credits. 502.* Continuation of 502 focusing upon the period of childhood.

**509. Special Problems in Human Medicine**

*Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 12 credits. Human Medicine students.*

Each student will work under direction of a faculty member of the college on an experimental, theoretical or applied problem. A student should employ this college level course, as distinguished from the departmental level special problems course, when his topic of interest seems to require a broad multidisciplinary approach.

**601. Human Biology and Behavior**

*Fall. Variable credit. May re-enroll for a maximum of 15 credits. Year V—College of Human Medicine Curriculum.*

A multidisciplinary study of the human organism unified by the theme of growth and development. Covers the basic science and clinical aspects of human growth and development from adolescence to death.

**602. Human Biology and Behavior**

*Fall, Winter, Spring, Summer. Variable credit. May enroll for a maximum of 15 credits. 601.*

Continuation of 601.

**603. Human Biology and Behavior**

*Spring. Variable credit. May enroll for a maximum of 15 credits. 602.*

Continuation of 602.

**HUMAN NUTRITION  
AND FOODS**

See Food Science and Human Nutrition

**IMPROVEMENT  
SERVICES**

**I S**

**All University**

**094. Arithmetic Improvement Service**

*Fall, Winter, Spring, Summer. 0(2-0)  
[2(2-0)]†.*

Instruction and practice in addition, subtraction, multiplication, and division of whole numbers, common and decimal fractions; problems involving percent; simple problems in ratio and proportion; and one-step equations.

†See page A-2 item 3

**INTERDISCIPLINARY  
COURSES**

**IDC**

**All University**

**200. Resource Ecology and Man**

*Fall. 3(3-0) Interdisciplinary with the following departments: Anthropology, Botany and Plant Pathology, Fisheries and Wildlife, Forestry, Geography, Park and Recreation Resources, Resource Development, and Zoology. Administered by the Fisheries and Wildlife Department.*

Mechanisms by which the environment regulates man and his resources. Ecology as the unifying basis for resource management. Resource conservation policy and environmental health.

**341. Contemporary Problems of South Asia**

*Fall. 4(3-0) Not open to Freshmen. Administered by the Geography Department.*

Current problems in India, Pakistan and adjoining areas, studied through regional case studies of population growth, agricultural and industrial development, urbanization, and internal and international political and economic relationships.

**342. Contemporary Problems of Japan**

*Winter. 4(3-0) Not open to Freshmen. Administered by the Geography Department.*

Current problems in Japan studied through case studies of major policy issues, agricultural and industrial development, urbanization, student and youth movement, political and governmental institutions, and problems of external relations.

**344. Modernization: India and Japan**

*Winter, Spring. 4(4-0) Not open to Freshmen. Administered by the Department of Social Science.*

Social, economic, and political development of non-western cultures in the movement from the traditional, non-industrial to the modernizing, industrializing stage.

**345. Modernization: The Middle East**

*Winter, Spring. 4(4-0) Not open to Freshmen. Administered by the Department of Social Science.*

Social, economic, and political development of non-western cultures in the movement from the traditional, non-industrial to the modernizing, industrializing stage.

**389. Continuing Revolution in China: Problems and Approaches**

*Spring. 4(3-0) Not open to Freshmen. Interdisciplinary with the Departments of Anthropology and History and administered by the History Department.*

The continuing revolution in China viewed first historically, then as it has affected various sectors of Chinese society, and finally as it has affected China's relations with other nations.

**390. Survey of Subsaharan Africa**

*Winter. 4(4-0) Credits may be counted in any of the cooperating departments. Interdisciplinary with the following departments cooperating: Anthropology, Geography, History, Political Science, and Sociology. Administered by the Geography Department.*

Africa introduced through integration of the approaches of several disciplines in the social sciences and humanities. Designed as basis for further work in departmental African area courses.

**391. Survey of Subsaharan Africa**

*Spring. 4(4-0) Credits may be counted in any of the cooperating departments listed in 390. Administered by the Geography Department. Continuation of 390.*

**400V. Distinguished Visiting Professor Series**

Fall, Winter, Spring. Variable credit. Approval of the student's major department.

The title, content, and credits to be determined by the college sponsoring the course in consultation with the visiting professor. May be counted as credit in any major upon approval of major department, division or dean.

**421. Seminar on Recent Advances in Science and Mathematics**

Fall, Winter, Spring, Summer. 2(2-0) May re-enroll for a maximum of 6 credits. Bachelor's degree.

A structured course which cuts across the other four major offerings. Selected topics in recent developments will be discussed by staff members and guest lecturers. Recent research is stressed and effort is made to show the inter-relatedness of the topics to general science course content materials.

**432. Introduction to Meteorology**

Spring. 3(3-0) Credit may be counted in either of the cooperating departments. Interdisciplinary with the Departments of Agricultural Engineering and Geology. Administered by the Agricultural Engineering Department.

A purview of atmospheric science including a study of the interactions between meteorology and living organisms.

**433. Introductory Meteorology Laboratory**

Spring. 1(0-2) 432 or concurrently. Credit may be counted in either of the cooperating departments. Interdisciplinary with the Departments of Agricultural Engineering and Geology. Administered by the Agricultural Engineering Department.

Weather map analysis, meteorological experimentation and instrumentation.

**435. Microclimatology**

Fall. 3(3-0) MTH 108. Administered by Agricultural Engineering Department.

The physical environment in the lower few hundred meters of the atmosphere and within the biosphere is described and the components of the energy budget are qualitatively evaluated.

**476. Canadian-American Studies**

Spring. 4(3-0) May re-enroll for a maximum of 8 credits. Credits may be counted in any of the cooperating departments. Interdisciplinary with the following: Anthropology, Secondary Education, English, Geography, History, and Romance Languages. Administered by the Canadian-American Studies Committee. Juniors.

Introduction to Canadian-American Studies. Materials from various disciplines enable the student to integrate subject-matter, areas, and methodology. Content varies from term to term, but course is always focused upon significant issues and subjects in the interrelated fields of Canada and the United States.

**488. The Impact of Animal Resource Management Upon the World's Developing Nations**

Winter. 3(4-0) Interdisciplinary with the following departments: Agriculture, Animal Husbandry, Crop and Soil Sciences, Dairy Science, Large Animal Surgery and Medicine, and Poultry Science, and administered by the Animal Husbandry Department.

Role of the domesticated animal resources of the underdeveloped world as managed by man to produce essential nutrients to alleviate starvation and deficiency disease and in diversifying economic development in the utilization of land resources.

**800V. Distinguished Visiting Professor Series**

Fall, Winter, Spring. Variable credit. Approval of the student's major department.

The title, content, and credits to be determined by the college sponsoring the course in consultation with the visiting professor. May be counted as credit in any major upon approval of major department, division or dean.

**803. Seminar in Industrial Relations**

Fall, Winter, Spring. 4(3-0) May re-enroll for a maximum of 16 credits, all applicable to the student's major field, with approval of the student's major department. Conducted jointly by the Departments of Economics, Management, Political Science, Psychology, and Sociology, and the School of Labor and Industrial Relations. Administered by the School of Labor and Industrial Relations.

Research and literature in industrial relations with emphasis on current research.

**838. Interdisciplinary Seminar on Africa**

Fall. 4 credits. Approval of department. Credits may be counted in any of the cooperating departments. Interdisciplinary with the following departments: Anthropology, Economics, Education, Geography, History, Linguistics, Political Science, and Sociology. Administered by the Anthropology Department.

Behavioral science problems in an African setting, viewed from perspective of relevant social science and humanistic disciplines associated with the African Studies Center.

**ITALIAN**

See Romance Languages

**JAMES MADISON COLLEGE**

**M C**

**111. American Thought and Language**

Fall. 3(3-0) Students may not receive credit in both M C 111 and ATL 111.

Emphasis is on language skills, particularly expository writing and effective reading through the use of selected American documents, political, social and literary.

**112. American Thought and Language**

Winter. 3(3-0) 111. Students may not receive credit in both M C 112 and ATL 112. Continuation of 111.

**113. American Thought and Language**

Spring. 3(3-0) 112. Students may not receive credit in both M C 113 and ATL 113. Continuation of 112.

**191. Natural Science**

Fall. 4(2-3) Students may not receive credit in both M C 191 and N S 191.

The role played by theories in physical science in man's attempt to find a unified view of nature. The Copernican Revolution and molecular and atomic theories related to man's concept of the universe and the nature of matter. Emphasis is placed on the social and philosophical preconditions necessary for the development and modification of scientific ideas.

**192. Natural Science**

Winter. 4(2-3) 191. Students may not receive credit in both M C 192 and N S 192. Development and structure of the theory of the cell and the theory of the gene with subsequent modifications of these theories as new data are gathered. Emphasis is on the nature and limitations of scientific knowledge.

**193. Natural Science**

Spring. 4(2-3) 192. Students may not receive credit in both M C 193 and N S 193. Some major controversies in science: Neptunism vs. Plutonism, Catastrophism vs. Uniformitarianism, and Organic Evolution vs. Fixity of Species. Emphasis is placed on the development of the controversies, their resolution and the impact of the controversies on both science and society.

**200. Introduction to the Study of Policy Problems**

Fall, Winter. 4(2-2)

Introduction to the social sciences and related disciplines as these apply to the study of major social, economic and political problems.

**201. Introduction to the Study of Policy Problems**

Winter, Spring. 4(2-2) 200.

Continuation of 200.

**202. Introduction to the study of Policy Problems**

Fall, Spring. 4(2-2) 201.

Continuation of 201.

**204. Mathematics for Social Scientists**

Fall, Winter. 4(2-2)

Introduction to probability theory, conditions of uncertainty, set theory, matrix algebra, and statistical tests. Applications to social science research.

**205. Methodology for Policy Sciences**

Fall, Winter, Spring. 4(3-1)

Introduction to the logic of social research, techniques of data collection, and procedures in quantification. Emphasis will be on interpretation and evaluation of findings for policy decision making.

**215. Utopia and the Quest for Social Progress**

Winter. 4(3-0)

Survey of utopian thought and literary utopias combined with detailed study of selected major utopias from *The Republic* to *Walden Two*.

**218. Contemporary Ideologies**

Winter, Spring. 4(3-0) Students may not receive credit in both M C 218 and PLS 170.

The doctrines by which socio-political movements justify and explain their goals and programs. An introduction to such movements and doctrines as socialism, communism, fascism, nationalism and democracy.

**220. Contemporary World Politics**

Winter. 4(3-0).

Theories explaining actions and interactions of nation-states, regions, and political movements. Analysis of histories, capabilities, and policies. Examination of factors accounting for conflict and collaboration in international relations.

**226. Socio-Cultural Factors in Developmental Change**

(326.) Fall. 4(3-0) 220 recommended.

The network of socio-cultural institutions related to economic decay, stagnation, or development. Conditions under which socio-cultural factors accelerate or retard economic development.