

**608. Sub-Specialty Clerkships**

Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. 602.

Hospital and office based clinical experiences in sub-specialties in medicine and surgery.

**609. Radiology Clerkship**

Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. 602.

Office and hospital based experience to acquaint the student with basic radiological information and develop X-ray interpretation skills.

**610. Family Practice Clerkship**

Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. 602.

A clerkship in a model family practice unit with graded responsibility and supervision in the care of families and their medical problems with emphasis on primary, continuing and comprehensive care.

**611. Anesthesiology Clerkship**

Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. 602.

Introducing common anesthetic agents and techniques, the Anesthesia Clerkship stresses pre-operative evaluation of physical and psychological status of patients and provides opportunity for performance of anesthetic procedures under supervision.

**HUMAN NUTRITION AND FOODS**

See Food Science and Human Nutrition

**IMPROVEMENT SERVICES**

IS

**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.

**INTERDISCIPLINARY COURSES**

IDC

**All University**

**200. Resource Ecology and Man**

Fall, Winter, Spring. 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.

†See page A-2 item 3

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.

**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.

**346. Far East: Contemporary Issues and Problems**

Spring. 4(4-0) Administered by the Department of Social Science

Contemporary political, economic and social issues in the Far East affecting relationships among Far Eastern peoples and relationships between these peoples and the United States and other powers.

**384. Contemporary Problems of Japan**

(342.) Winter. 4(3-0) Not open to Freshmen. Interdisciplinary with the Departments of Anthropology, Geography, and History. Administered by the Department of Geography.

**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 So-

biology, 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.

**338. 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 121, 131, 141, 151, 161, 171, 181, 191H.

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 122, 132, 142, 152, 162, 172, 182, 192H.

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 123, 133, 143, 153, 163, 173, 183, 193H.

Continuation of 112.

**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. 4(2-2) 200.

Continuation of 200.

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

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**

Spring. 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. 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.

**227. Political Factors in Modernizing Societies**

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

Internal political factors related to the search for stability and development.

**230. Education and Poverty**

Spring. 4(3-0)

The relationship between education, poverty, and the institutional structures affecting the distribution of opportunity in technologically advanced societies. Surveys current theoretical and empirical literature and explores relevant major sociological and psychological concepts.

**240. Applications of Economic Policy Analysis**

Spring. 4(3-0) EC 200 and 201 or 210.

Economic principles and concepts applied to contemporary economic policy problems. Emphasis on alternative explanations for selected problems, the institutions of economic policy-making and normative implications of various policy solutions.

**250. Historical Development of Urban Society**

Fall. 4(3-0)

The evolution of cities, from the Industrial Revolution. Particular stress will be placed upon the processes of urbanization, and upon the social, economic, and political aspects of American urban history.

**251. The Contemporary American City**

Winter. 4(3-0)

Analysis of urban social and political organization and the policy-making process. Selected topics such as urban neighborhoods, class and sub-culture and urban bureaucracy.

**252. Urban Policy Problems**

Spring. 4(3-0)

The study of contemporary urban problems, their policy implications and the role of these problems in future cities. Students must confront alternative solutions and their value assumptions.

**270. Legal and Political Theory I**

Fall. 4(3-0)

An introduction to some of the major problems of politics as reflected in various significant political philosophies. Problems considered will include constitutionalism, equality, federalism, representation, minority rights.

**271. Legal and Political Theory II**

Winter. 4(3-0)

An introduction to some of the major problems of politics as reflected in various significant political philosophies. Problems considered will include constitutionalism, equality, federalism, representation, minority rights.

**273. Social Problems and Human Values I**

Winter. 4(3-0)

Critical examination of selected social problems from viewpoint of normative ethics. No single normative position will be selected as definitive but several will be evaluated, i.e., utilitarianism, Kantianism, intuitionism, pragmatism.

**274. Social Problems and Human Values II**

Spring. 4(3-0)

Critical examination of selected social problems from viewpoint of normative ethics. No single normative position will be selected as definitive but several will be evaluated, i.e., utilitarianism, Kantianism, intuitionism, pragmatism.

**280. The Study of Intergroup Relations**

Fall. 4(3-0)

An examination of social science literature analyzing intergroup relations. Topics include race and racism, ethnicity and religious sectarianism, the social and psychological roots of prejudice and the institutionalization of discrimination.

**281. Immigration, Assimilation and Pluralism**

Winter. 4(3-0)

Relationships between immigrant groups primarily from an historical point of view. Theories of Americanization, assimilation vs. cultural pluralism, and restrictionist legislation.

**290. Special Topics**

Fall, Winter, Spring. 4(3-0) May re-enroll for a maximum of 20 credits.

Selected topics drawn from the major social, political, and economic problems confronting public policy practitioners and social scientists.

**295. Independent Study**

Fall, Winter, Spring. 1 to 4 credits. May re-enroll for a maximum of 12 credits. Approval of college.

**321. The American Foreign Policy and Defense Establishment**

Fall. 4(3-0) 220 recommended.

Institutions, processes and doctrines of contemporary American foreign and defense policy. The role of the Presidency, Congress, governmental agencies, pressure groups and public opinion.