608. Sub-Specialty Clerkships  
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 41 credits. 602.
Hospital and office based clinical experiences in subspecialties 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 45 credits. 603.
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 Anesthesiology Clerkship stresses preoperative 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  I S

All University

094. Arithmetic Improvement Service  Fall, Winter, Spring. 2(2-0). 1 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

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, Winter, Spring, Summer. 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.

344. Modernisation: 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 to the modernizing, industrializing stage.

345. Modernisation: 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 and affecting relationships among Far Eastern peoples and relationships between these peoples and the United States and other powers.

384. Contemporary Problems of Japan  (343) 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 Sub-Saharan Africa  Winter. 4(4-0) Credits may be counted in any of the cooperating departments. Interdisciplinary with the following departments: Anthropology, Geography, History, Political Science and Administration. 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.

432. Introduction to Meteorology  Spring. 3(3-0) Credits may be counted in either of the cooperating departments. Interdisciplinary with the Departments of Agricultural Engineering and Geology. Administered by the Agricultural Engineering and Geology Department.
A survey of the atmosphere including some of the interactions between meteorology and living organisms.

433. Introductory Meteorology Laboratory  Fall, Spring. 1(0-2) 432 or concurrently. Credit may be counted in either of the cooperating departments. Interdisciplinary with the Departments of Agriculture 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 the Agricultural Engineering Department.
The physical environment and the role of the biosphere 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, Junior College.
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.

481. Seminar in Industrial Relations  Fall, Winter, Spring. 2(2-0) May re-enroll for a maximum of 12 credits, all applicable to the student’s major field. Conducted jointly by the Departments of Economics, Management, Political Science, Psychology, and Sociology.

1 See page A-3 Item 3
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.

826. 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 the 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). 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(3-0)
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.

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
(326.) 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 policymaking 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.