

## Descriptions - HUMAN NUTRITION AND FOODS

of

### Courses

## HUMAN NUTRITION AND FOODS

See Food Science and Human Nutrition.

## IMPROVEMENT SERVICE

### All University

#### 1941. Quantitative Techniques

Fall, Winter, Spring, Summer. 2(2-0) Proficiency test referral or approval of department. Credits earned in this course are included in computation of GPA and MAPS but are not included in the 180 credits required for graduation.

Number system; rounding and estimating; fractions; decimals; percent; equations; formulas; direct and inverse proportion, including graphs; problem solving or applications; multiplication and division by powers of ten and their multiples; scientific notation; metric system conversions; bases other than ten.

## INTERDISCIPLINARY COURSES

### All University

#### 1005. Career Planning and Academic Programming

Winter, Spring, 1(1-0) Credits earned in this course are included in computation of GPA and MAPS but are not included in the 180 credits required for graduation. Administered by Department of Natural Science.

Philosophical and practical aspects of making career choices and designing academic programs to meet career objectives. Tools and techniques for self-evaluation and evaluation of career alternatives; employability, trends in occupations. Approved through Summer 1981.

#### 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 Department of Fisheries and Wildlife. Mechanisms by which the environment regulates man and his resources. Ecology as the unifying basis for resource management. Resource conservation policy and environmental quality. Approved through Summer 1981.

#### 210. Introduction to Latin America I

Fall. 3(3-0) Interdisciplinary with the departments of Anthropology, Geography, Music, and Romance and Classical Languages. Administered by the Department of Romance and Classical Languages.

Specialists on Latin American geography, archaeology, cultural anthropology and music introduce the student to life in Central and South America.

Approved through Summer 1982.

#### 211. Introduction to Latin America II

Winter. 3(3-0) Interdisciplinary with the departments of Art, Romance and Classical Languages, and Sociology. Administered by the Department of Romance and Classical Languages.

Specialists in the historical literature, art and sociology of Latin America introduce the student to the culture of the area.

#### 212. Introduction to Latin America III

Spring. 3(3-0) Interdisciplinary with the departments of Economics, Political Science, and Romance and Classical Languages. Administered by the Department of Romance and Classical Languages.

Specialists on Latin American political science, economics and contemporary literature introduce the student to Ibero-America.

#### 255. Continuing Revolution in China: Problems and Approaches

Fall. 4(4-0) Interdisciplinary with the departments of Anthropology, Geography, History, and Political Science and James Madison College. Administered by the Department of History.

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.

Approved through Summer 1981.

#### 256. Energy Consumption and Environmental Quality (N)

Spring. 3(3-0) Interdisciplinary with Lyman Briggs College and the Department of Physics. Administered by the Department of Physics.

The role of energy as a fundamental pollutant will be discussed along with the availability of fossil energy sources. Limitations on the safe utilization of both fossil and nuclear energy will also be considered.

Approved through Summer 1981.

#### 341. Contemporary Problems of South Asia

Spring. 4(3-0) Not open to Freshmen. Interdisciplinary with the departments of Anthropology, Geography, and Political Science. Administered by the Department of Political Science.

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.

Approved through Summer 1981.

#### 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.

Approved through Summer 1981.

#### 384. Contemporary Problems of Japan

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

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.

Approved through Summer 1981.

#### 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 cooperating: Anthropology, Geography, History, Political Science and Sociology. Administered by the Department of Geography.

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.

Approved through Summer 1981.

#### 391. Survey of Sub-Saharan Africa

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

Continuation of IDC 390.

Approved through Summer 1981.

#### 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.

#### 401. Interdisciplinary Issues in Aging

Winter. 4(4-0) Administered by the Department of Natural Science.

Interdisciplinary and cross cultural exploration of the aging process. Concern with aging as a personal experience as well as a biological, social and psychological event.

Approved through Summer 1981.

#### 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 Department of Agricultural Engineering.

Atmospheric science's view of earth's atmosphere, its physical structure, energy and moisture balance, vertical and horizontal motions, formation of air masses, general circulation, fronts, cyclones, and weather. Applications of meteorology.

Approved through Summer 1981.

#### 433. Introductory Meteorology Laboratory

Spring. 1(0-2) IDC 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 Department of Agricultural Engineering.

Analysis of meteorological data, meteorological experimentation and instrumentation.

Approved through Summer 1981.

#### 435. Microclimatology

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

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.

Approved through Summer 1981.

**447. Refugees, Displaced Persons, Hostages, Exiles**  
Spring. 4(4-0) Juniors.  
Interdisciplinary with the departments of History, Political Science, Social Science, and Sociology. Administered by the Department of Social Science.  
The new refugedom is caused mainly by the new nations' emergence into independence. Course examines historical experiences, political causes and solutions, shocks and adjustments of assimilation, social life and organizations of refugees.  
*Approved through Summer 1981.*

**470. Biological Membranes**  
Spring. 3(3-0) BCH 401.  
Interdisciplinary with the departments of Biophysics, Biochemistry, Microbiology and Public Health, and Physiology. Administered by the Department of Physiology.  
The chemistry, physics and mathematics of the permeability, energy transductions and surface functions of differentiated cell membranes and membranous organelles are compared. A brief discussion of theoretical and experimental models is included.  
*Approved through Winter 1983.*

**476. Canadian-American Studies**  
Spring. 4(3-0) May reenroll for a maximum of 8 credits. Juniors. Credits may be counted in any of the cooperating departments. Interdisciplinary with the following: Anthropology, Secondary Education, English, Geography, History, and Romance and Classical Languages. Administered by the Canadian-American Studies Committee.  
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.  
*Approved through Summer 1981.*

**488. The Impact of Animal Resource Management Upon the World's Developing Nations**  
Winter. 4(5-0) Interdisciplinary with the following: Agriculture and Natural Resources, and the departments of Animal Husbandry, Crop and Soil Sciences, Dairy Science, Large Animal Surgery and Medicine, and Poultry Science. Administered by the Department of Animal Husbandry.  
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.  
*Approved through Summer 1981.*

**803. Seminar in Industrial Relations**  
Fall, Winter, Spring. 4(3-0) May reenroll 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.  
*Approved through Summer 1981.*

**810. Aging and Communication**  
Spring. 3(3-0) Approval of instructor.  
Interdisciplinary with the Department of Family and Child Ecology, the School of Social Work, and the College of Communication Arts and Sciences. Administered by the Department of Family and Child Ecology.  
Knowledge and understanding of the importance of communication for older people in various spheres of their lives. Developmental changes in speech, language, and sensory acuity and their implications.  
*Approved through Winter 1982.*

**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 Department of Anthropology.  
Behavioral science problems in an African setting, viewed from perspective of relevant social science and humanistic disciplines associated with African Studies Center.  
*Approved through Summer 1981.*

## ITALIAN

See Romance and Classical Languages.

## JAMES MADISON COLLEGE

M C

**111. Identity and Community in America: An Approach to Writing**  
Fall. 3(3-0).  
Identity in contemporary America. Emphasis on family, love, work, education, race. Materials include journals, biographies, fiction, films, and essays. Students write narratives, autobiographies, and critical analyses based on personal experience.

**112. Identity and Community in America: An Approach to Writing**  
Winter. 3(3-0) M C 111.  
The quest for community in early America. Autonomy, authority, and morality in the "good society." Materials include literary and historical sources, films, and community studies. Students write expository and argumentative essays.

**113. Identity and Community in America: An Approach to Writing**  
Spring. 3(3-0) M C 112.  
Identity and community in American society under stress, such as the Great Depression of Civil War. Materials include fiction, interviews, photography, films. Students investigate primary documents and write expository essays.

**200. Introduction to the Study of Policy Problems**  
Fall. 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) M C 200.  
Continuation of M C 200.

**202. Introduction to the Study of Policy Problems**  
Spring. 4(2-2) M C 201.  
Continuation of M C 201.

**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**  
Fall. 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**  
Fall, Winter. 4(3-0) Students may not receive credit in both M C 220 and PLS 160.  
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.

**221. The American Foreign Policy Establishment**  
(321.) Winter. 4(3-0) M C 220 recommended.  
Institutions, processes and doctrines of contemporary American foreign policy. The role of the Presidency, Congress, governmental agencies, pressure groups and public opinion.

**226. Socio-Cultural Factors in Developmental Change**  
Spring. 4(3-0) M C 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.

**229. The Arab-Israeli Conflict**  
Fall of even-numbered years. 4(3-0)  
Analysis of major political and ideological issues in the Arab-Israeli conflict since 1948. Examination of the causes and consequences of unresolved problems and evaluation of alternative solutions.

**240. Applications of Economic Policy Analysis**  
Spring. 4(3-0) EC 200 and EC 201 or EC 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.