HUMAN NUTRITION
AND FOODS
See Food Science and Human Nutrition

IMPROVEMENT SERVICES

All University

INTERDISCIPLINARY COURSES

All University

100. Career Planning and Academic Programming

Spring, 1(1-0) Administered by University College.

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.

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.

201. Introduction to Environmental Systems

(STS 150.) Fall, Winter, Spring, 3(3-0) Interdisciplinary with Systems Science and Engineering. Administered by Systems Science.

Basic systems concepts presented in a non-mathematical manner. Application to selected ecological topics, e.g., energy, water quality, food production, population dynamics. Interactive models provide opportunity for students to play decision-making role.

203. Introduction to Study of the Moon

Spring, 3(3-0) Interdisciplinary with the departments of Astronomy, Geography, and Geology and administered by the Geology Department.

Lunar science presented from the viewpoints of astronomy, geography and geology with particular emphasis on the increasing importance of the moon in man's present and future. Evening lunar observations required.

220. The Politics of Ecology

Spring, 4(3-0) Interdisciplinary with the departments of Political Science and Social Science and administered by the Department of Social Science.

Political considerations fundamental to environmental issues. Theory, practice, and prescriptions for action are included. Economic, legal, and ethical factors influencing public policy decisions will be emphasized.

221. The Role of Helping Professions and Organizations in Community Services

Fall, Winter, Spring, 4(3-0) Interdisciplinary with the department of Family Ecology. Administered by the Department of Family Ecology.

Analysis of human and community needs; review and examination of existing and emerging resources to meet those needs; role of professionals and volunteers in providing community and human services.

255. Continuing Revolution in China: Problems and Approaches

(389.) Fall, 4(4-0) Not open to Freshmen. Interdisciplinary with the departments of Political Science and Social Science. Administered by the Department of Political Science.

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

256. Energy Consumption and Environmental Quality

(LBC 258.) Spring, 3(3-0) Interdisciplinary with Lyman Briggs College and the Physics Department. Administered by Lyman Briggs College.

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

341. Contemporary Problems of South Asia

Spring, 3(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. 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.

347. Refugees, Displaced Persons, Hostages, Exiles
Spring. 4(4-0) Junior. Interdisciplinary with the departments of History, Political Science, Social Science and Sociology and administered by the Department of Social Science.

The new refugee 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.

354. 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.

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 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 Sub-Saharan 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. 2(2-0) May re-enroll for a maximum of 8 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 interrelatedness 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 survey of atmospheric science including a study of the interactions between meteorology and living organisms.

433. Introductory Meteorology Laboratory
Spring. 1(0-2) 433 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) MTY 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. Junior. Credits may be counted in any of the cooperating departments. Interdisciplinary with the following departments: Anthropology, Secondary Education, English, Geography, History, Marketing and Transportation Administration, and Romance 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 methodologies. Course 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.

Winter. 4(5-0) 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 diseases 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.

388. 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

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(3-2) 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(3-2) 201. Continuation of 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.