241. Humanities
Fall, Winter, Spring, Summer. (4-4-0)
Sophomore.
A. Western culture through a study of its origins in the civilizations of Greece and Rome and in the Judeo-Christian tradition. Uses an anthology of source readings, selected paperbacks, and other examples from the fields of history, literature, philosophy, religion and art. Emphasizes art and uses a more elaborate art text than 241A and 241B.
B. Western culture through a study of its origins in the civilizations of Greece and Rome and in the Judeo-Christian tradition. Uses whole works as source readings from the fields of history, literature, philosophy, religion and art.
C. Western culture through a study of its origins in the civilizations of Greece and Rome and in the Judeo-Christian tradition. Uses an anthology of source readings, selected paperbacks, and other examples from the fields of history, literature, philosophy, religion and art.
D. Indian
E. Islamic

242. Humanities
Fall, Winter, Spring, Summer. (4-4-0)
Four credits in a 242 track.
A. Continuation of 241A. Deals with the medieval and early modern stages of Western culture.
B. Continuation of 241B. Deals with the medieval and early modern stages of Western culture.
C. Continuation of 241C. Deals with the medieval and early modern stages of Western culture.
D. Honor track. Western culture through a study of its origins in the civilizations of Greece and Rome and in the Judeo-Christian tradition. Uses an anthology of source readings, selected paperbacks, and other examples from the fields of history, literature, philosophy, religion and art.

INSTITUTION ADMINISTRATION

322. Quantity Food Production
Fall, Winter, Spring. 4(2-4) Juniors.
Experience in quantity food production; personnel problems; cost control.

325. Institution Management
Spring. 3(3-0) Juniors.
Principles of effective management with emphasis on techniques of supervision for controlling costs in quantity food service operations.

400. Independent Study
Fall, Winter, Spring. Variable credit. May re-enroll for a maximum of 6 credits.
Individual study of specific problems in food service management of hospitals, restaurants, college housing units, and the federal school lunch program under staff guidance.

424. Institution Equipment and Layout
Winter. 3(2-2) 322 or concurrently.
Selection of equipment and principles of layout for food service operations.

426. Institution Marketing
Fall. 3(2-2) SS 233 or EC 200.
Standards of quality, distribution and storage of food supplies to serve as a basis for purchase of such commodities for institution food service.

IMPROVEMENT SERVICES

All University

094. Arithmetic Improvement Service
Fall, Winter, Spring. 6(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

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.

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.

400. Distinguished Visiting Professor Series
Fall, Winter, Spring. Variable credit. Approval of the student and 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.

425. Advanced Food Production Management
Fall, Winter, Spring. 4(2-4) 322.
Experience in food administration. University food services are used for training centers.

800. Seminar in Institution Administration
Fall, Winter, Spring, Summer. 1 to 3 credits. May re-enroll for a maximum of 8 credits. Approval of department.

803. Problems in Institution Administration
Fall, Winter, Spring. Variable credit. Approval of department.

813. Special Studies in Institution Administration
Fall, Winter, Spring, Summer. Variable credit. Approval of department. Special studies in experimental foods, equipment and layout, management, marketing, and school food service.

899. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

241. 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.

A-68
421. Seminar on Recent Advances in Science and Mathematics
Fall, Winter, Spring, Summer, 2(3-0).
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 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 purview of atmospheric science including 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 Department 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.

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 humanitarian disciplines associated with the African Studies Center.

789. Interdisciplinary Seminar: Behavioral and Historical Approaches to Problems of Selected Foreign Areas
Winter, Spring. 3(3-0). May re-enroll for a maximum of 12 credits, all applicable to the student's major field, with approval of the student's major department. Conducted jointly by the Departments of Agricultural Economics, Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology.
An exploration of major problems of various foreign areas. The problems and areas under discussion vary from term to term. Members of the American Universities Field Staff with recent experience abroad participate as invited lecturers and discussants.

ITALIAN
See Romance Languages.

JAMES MADISON COLLEGE

MC

111. American Thought and Language
Fall, 3(3-1). 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(3-1). 111. Students may not receive credit in both M C 112 and ATL 112.
Continuation of 111.

113. American Thought and Language
Spring, 3(3-1). 112. Students may not receive credit in both M C 113 and ATL 113.
Continuation of 112.

191. Natural Science
Fall, 4(3-0). 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 modifications 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(3-5). 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 influence of the controversies on both science and society.

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, Spring, 4(3-2), 200.
Continuation of 200.

202. Introduction to the study of Policy Problems
Fall, Spring, 4(3-2). 201.
Continuation of 201.

204. Mathematics for Social Scientists
Fall, Winter, Spring. 4(3-1).
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
Fall, 4(3-0).
Survey of utopian thought and literary utopias contrasted with detailed study of selected major utopias from The Republic to Walden Two.

218. Contemporary Ideologies
Winter, Spring, 4(3-4).
Survey of utopian thought and literary utopias contrasted with detailed study of selected major utopias from The Republic to Walden Two.

220. The International Society
Winter, 4(3-0).
Interrelations of nations reflected in political, economic and military histories, power capabilities, instruments to implement foreign policies; the international system, diplomacy, balance of power, implications of mass destruction, world community.

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.