

**IMPROVEMENT
SERVICE**

IS

College of Natural Science

1941. Quantitative Techniques

Fall, Winter. 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**

IDC

All University

**233. Introduction to Women's Studies:
Women's Consciousness**

Winter, Spring. 4(4-0) Interdisciplinary with the colleges of Arts and Letters and Social Science. Administered by the College of Arts and Letters.

Development of women's consciousness in various historical, cross-cultural and scientific contexts. Contexts basic to feminist thought are clarified. Critique of sexism in traditional scholarship.

Approved through Summer 1986.

**255. Introduction to Contemporary
China**

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

China's transition from traditional, agrarian state to modern nation in world community and overview of its recent political, economic, social, cultural and diplomatic developments.

Approved through Fall 1985.

257. Contemporary Japan

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

Contemporary Japanese society, governmental institutions and policies, religion and culture, foreign relations, industry, agriculture, management. Japanese social stability and economic development since World War II.

Approved through Winter 1987.

341. Contemporary South Asia

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

Current issues in India, Pakistan and adjoining areas. Studies through regional case studies of population growth, agricultural and industrial development, urbanization, and internal and international political and economic relationships.

Approved through Winter 1986.

**400V. Distinguished Visiting Professor
Series**

Fall, Winter, Spring. 2 to 5 credits. May reenroll for a maximum of 15 credits if different topics are taken. 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.

**443. Women's Studies Senior Level
Seminar**

Spring. 4(4-0) IDC 233 or six credits from ATL 181, ATL 182, ATL 183 and 2 additional courses approved for the Women's Studies Thematic Program. Interdisciplinary with the colleges of Arts and Letters, and Social Science. Administered by the College of Arts and Letters.

Synthesis of the student's thematic experience. Emphasis is on individualized research projects. Instructor's approach is problem oriented.

Approved through Summer 1986.

447. Refugees, Displaced Persons, Exiles

Winter. 4(4-0) Juniors. Interdisciplinary with the departments of History, Political Science, Social Science, and Sociology. Administered by the Department of Social Science.

Analysis, definition and description of refugees as a research category. Behavior of refugees and relief agencies. Nature of causes, persecution, asylum and flight. Political, legal, sociological, economic, psychological, historical problems.

Approved through Fall 1984.

448. Issues in Refugee Assistance

Spring. 4(4-0) Juniors. Interdisciplinary with the departments of Political Science, Social Science and Sociology. Administered by the Department of Social Science.

Continuation of IDC 447. Refugee policy issues in developed and developing countries. Admission levels; asylum; camps; relief and development; equity and tension with host; economic adjustment; ethnicity. Comparative refugee assistance.

Approved through Fall 1984.

470. Biological Membranes

Spring. 3(3-0) BCH 401. Interdisciplinary with the departments of 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 Spring 1988.

INTERNAL MEDICINE

IM

(Established effective January 1, 1981.)

College of Osteopathic Medicine

**590. Special Problems in Internal
Medicine**

Fall, Winter, Spring, Summer. 1 to 8 credits. Approval of department.

Each student will work under direction of a faculty member on an experimental, theoretical or applied problem.

620. Directed Studies

Fall, Winter, Spring, Summer. 2 to 24 credits. Grade P in all courses offered in terms 1 through 8.

Individual or group work on special problems in medicine related to internal medicine.

650. Medicine Clerkship

(O M 650.) Fall, Winter, Spring, Summer. 2 to 24 credits. May reenroll for a maximum of 24 credits. Grade P in all courses offered in terms 1 through 8.

Clinical exposure in osteopathic medicine. Program developed to achieve proficiency in motor skills and aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management, and therapy.

651. Cardiology Clerkship

Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

Intensive experience in bedside diagnosis and care of patients with the more frequently seen cardiac problems.

652. Gastroenterology Clerkship

Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

Inpatient and outpatient clinical gastroenterology. Reinforcement of fundamentals of gastrointestinal diseases, including evaluation of GI patients, cost effectiveness in patient management, behavioral science related to patient care.

653. Oncology/Hematology Clerkship

Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

Diagnosis, staging and treatment methods of solid tumors and other neoplasms. Pharmacology of cytotoxic agents. Issues in nutrition. Behavioral approaches to the terminally-ill patient.

654. Pulmonary Disease Clerkship

Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

Evaluation and treatment of patients with common pulmonary diseases, including acute and chronic respiratory failure, primary and metastatic lung tumors, various bacterial and non-bacterial pneumonias.

655. Nephrology Clerkship

Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. I M 650 or approval of department.

Clinic and hospital based experience to develop basic skills in evaluation and management of patients with renal disease. Emphasis on integration of renal physiology and pathophysiology.

656. Neurology Clerkship

(O M 657.) Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

Clinical exposure in area of neurology. Program structure developed to achieve proficiency in motor skills, aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management, and therapy.

Descriptions — Internal Medicine

of

Courses

657. Emergency Medicine Clerkship
(O M 655.) Fall, Winter, Spring, Summer. 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

A clerkship organized to develop skills in the acute evaluation and management of patients in the hospital emergency room and other locations.

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
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
Winter, 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
Fall, 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 policy-making and normative implications of various policy solutions.

245. Organizational Behavior and Public Policy
Winter. 4(3-0)

Effects of organizational structure, process, and environment on implementation of public policy. Analysis of organizations through consideration of case studies.

249. American Urban History
Fall. 4(3-0) Interdepartmental with the Department of History.

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 the future cities. Students must confront alternative solutions and their value assumptions.

IDC. Introduction to Contemporary China
For course description, see Interdisciplinary Courses.

IDC. Contemporary Japan
For course description, see Interdisciplinary Courses.

270. Legal and Political Theory I
Fall. 4(3-0)

Major political problems studied through selected works of classical and medieval political and legal theory. Emphasis on Greek concepts of 'polis' and the influence of classical theory on Western Politics.

271. Legal and Political Theory II
Winter. 4(3-0) M C 270 or approval of college.

Political and legal theories of the 16th, 17th, and 18th centuries which form the foundations of liberal political thought. Emphasis on the relation of political values and the institutions of Western society.

272. Legal and Political Theory III
Spring. 4(3-0) M C 271 or approval of college.

Political and legal theories of the 19th and 20th centuries. Emphasis on interrelations with social theory and values and social and economic institutions of modern society.

275. The Theoretical Foundations of Constitutional Democracy
Fall, Winter, Spring. 4(3-0)

Origins and development of principles of constitutional or liberal democracy. Philosophical and practical problems that characteristically manifest themselves in regimes based on those principles.

278. Social Problems and Human Values
Winter. 4(3-0)

Critical examination of selected social problems from the viewpoint of normative ethics.

282. Stratification: Class and Caste in Intergroup Relations I
Fall. 4(3-0)

The meaning and causes of social inequality, especially in multi-ethnic and multi-racial societies. Relations among classes and castes. Equality of opportunity, caste and class mobility.

283. Stratification: Class and Caste in Intergroup Relations II
Winter. 4(3-0) M C 282 recommended.

A continuation of M C 282.

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(4-0)

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(4-0) M C 200.

Continuation of M C 200.

202. Introduction to the Study of Policy Problems
Spring. 4(4-0) M C 201.

Continuation of M C 201.

205. Methodology for Policy Sciences
Fall, Winter, Spring. 4(4-0)

Introduction to the logic of social research, techniques of data collection, and procedures in quantification. Emphasis will be on interpretation and evaluation of finding for policy decision making.