

**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.