

**545. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 541 or approval of college. Students may not receive credit in both H M 512 and H M 545, H M 546, H M 547.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**546. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 545 or approval of college. Students may not receive credit in both H M 512 and H M 545, H M 546, H M 547.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**547. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 546 or approval of college. Students may not receive credit in both H M 512 and H M 545, H M 546, H M 547.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**550. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 547 or approval of college. Students may not receive credit in both H M 513 and H M 550, H M 551, H M 552.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**551. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 550 or approval of college. Students may not receive credit in both H M 513 and H M 550, H M 551, H M 552.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**552. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 551 or approval of college. Students may not receive credit in both H M 513 and H M 550, H M 551, H M 552.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**555. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 552 or approval of college. Students may not receive credit in both H M 514 and H M 555, H M 560, H M 561.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**560. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 555 or approval of college. Students may not receive credit in both H M 514 and H M 555, H M 560, H M 561.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**561. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 560 or approval of college. Students may not receive credit in both H M 514 and H M 555, H M 560, H M 561.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**565. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 561 or approval of college. Students may not receive credit in both H M 515 and H M 565, H M 566, H M 567.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**566. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 565 or approval of college. Students may not receive credit in both H M 515 and H M 565, H M 566, H M 567.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**567. Track II Focal Problem**

Fall, Winter, Spring. 5(5-0) H M 566 or approval of college. Students may not receive credit in both H M 515 and H M 565, H M 566, H M 567.

Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

**590. Special Problems in Human Medicine**

Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Human Medicine students or approval of college.

Students will work under direction of a faculty member on an experimental, theoretical or applied problem. Students should employ the college-level course rather than departmental-level special problems courses, when their topics of interest require a broad multidisciplinary approach.

**604. Hospital Care Clerkship**

Fall, Winter, Spring, Summer. 16(0-16) Must reenroll for a total of 32 credits. H M 602.

Longitudinal, inpatient exposure to severe hospital and consultative care problems. Patient management stressed. Fullfills departmental clerkship objectives (when combined with H M 605). Conducted in Marquette, Michigan.

**605. Comprehensive Care Clerkship**

Fall, Winter, Spring, Summer. 16(0-16) Must reenroll for a total of 32 credits. H M 602.

Comprehensive, longitudinal, ambulatory exposure to skills, problems, and content of primary disciplines of medical training. Fullfills departmental objective (when combined with H M 604) for required clerkships. Conducted in Escanaba, Michigan.

**608. Sub-Specialty Clerkships**

Fall, Winter, Spring, Summer. 1 to 17 credits. May reenroll for a maximum of 41 credits. H M 602.

Hospital and office based clinical experiences in sub-specialties in medicine and surgery.

**609. Pre-Intern Clerkship**

Fall, Winter, Spring, Summer. 12 credits. May reenroll for a maximum of 48 credits. Successful completion of required clerkships; approval of instructor.

Patient care responsibilities similar to internship, under close faculty and resident supervision, in a community hospital.

**HUMAN NUTRITION AND FOODS**

See Food Science and Human Nutrition.

**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.

**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.

**Descriptions — Interdisciplinary Courses of Courses**

**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.

**INTERNAL MEDICINE I M**

(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**

*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. 1 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.

**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.

**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 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**

*Winter, Spring, 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.