

**Descriptions – Interdisciplinary Courses  
of  
Courses**

**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.  
Membranes and membranous organelles of cells are discussed in terms of the chemistry, physics and mathematics of permeability, energy transductions and surface functions. Theoretical and experimental models are analyzed.  
Approved through Spring 1985.

**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**  
(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.

**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. 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.