570. Introduction to Behavioral Medicine  
Fall, 3(3-0)  
Survey of behavioral and social factors influencing health, illness, and use of the health care system. Clinical and experimental examples of psychological and social influences on biological levels of organization.

572. Adult Through Aged Development  
Spring, 2(2-0) PHD 571.  
Characteristics of physical, cognitive, social, and emotional development and change, late adolescence through senescence. Interaction of biologic, psychologic and social factors in the developmental process.

575. Problems of the Aged  
Spring, 2(2-0) PSC 574.  
Origin, course and treatment of disorders of function and behavior in the aged. Emphasis on biopsychosocial interaction, clinical and community perspectives and the health care system.

590. Special Problems in Human Medicine  
Fall, Winter, Spring, Summer, 1 to 8 credits. May reenroll for a maximum of 32 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 require a broad multidisciplinary approach.

604. Hospital Care Clerkship  
Fall, Winter, Spring, Summer, 16(0-16) Must reenroll for a total of 32 credits. FMP 602.  

605. Comprehensive Care Clerkship  
Fall, Winter, Spring, Summer, 18(0-16) Must reenroll for a total of 32 credits. FMP 602.  
Comprehensive, longitudinal, ambulatory exposure to problems, skills, knowledge, 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. FMP 602.  
Hospital and office based clinical experiences in sub-specialties in medicine and surgery.

620. Directed Studies  
Fall, Winter, Spring, Summer, 2 to 24 credits. Must reenroll for a maximum of 48 credits. Grade F 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 32 credits. Grade F 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, 8 to 10 credits. May reenroll for a maximum of 12 credits. Grade F 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 to 8 credits. May reenroll for a maximum of 12 credits. Grade F in all courses offered in terms 1 through 8.  
Inpatient and outpatient clinical gastroenterology. Reinforcement of fundamentals of gastrointestinal disease, including evaluation of GI patients, cost effectiveness in patient management, behavior of service related to patient care.

653. Oncology/Hematology Clerkship  
Fall, Winter, Spring, Summer, 6 to 8 credits. May reenroll for a maximum of 12 credits. Grade F in all courses offered in terms 1 through 8.  

654. Pulmonary Disease Clerkship  
Fall, Winter, Spring, Summer, 6 to 8 credits. May reenroll for a maximum of 12 credits. Grade F 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 nonbacterial pneumonias.

655. Nephrology Clerkship  
Fall, Winter, Spring, Summer, 6 to 8 credits. May reenroll for a maximum of 12 credits. Grade F in all courses offered in terms 1 through 8.  
Clinical 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.

HUMAN NUTRITION AND FOODS  
See Food Science and Human Nutrition.

IMPROVEMENT SERVICE  
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 power of ten and their multiples; scientific notation; metric system conversions; bases other than ten.

INTERDISCIPLINARY COURSES  
All University  
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 diplomartic developments. Approved through Fall 1990.

257. Contemporary Japan  
Winter, 4(4-0) Interdisciplinary with the departments of Anthropology, Geography, History and James Madison College. 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 Fall 1989.

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 other areas of South Asia, studied from interdisciplinary perspective using the major humanistic and social science disciplines. Approved through Winter 1991.

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.