Selected Descriptions

283H. Interdisciplinary study of the literature, philosophy, religion, architecture, painting, sculpture, music, film, and other performing arts of the era since 1945. Students may not receive credit in more than one of the following: HUM 202, HUM 211, HUM 231, HUM 261 or HUM 281H. (HUM 272.) 4(4-0) Sophomores. Recommanded HUM 291; or HUM 201, HUM 211, HUM 221, HUM 231, HUM 261 or HUM 281H. Fall, Winter, Spring. May reenroll for a maximum of 8 credits. May reenroll for a maximum of 12 credits. Six credits in humanities general education; approval of department. Selected students requesting individual study of interdisciplinary problems. Variable elective credit will be determined when the student secures instructor, adviser, and department approval. Honors Course: Modern World (A) Spring, 4(4-0) Sophomores; approval of department. Students may not receive credit in more than one of the following: HUM 202, HUM 211, HUM 231, HUM 263, HUM 283H. Deeds with modern Western culture since 1700.

294. The Cultural Traditions of the Islamic World (A)
Fall, Winter, Spring. 4(4-0)
An interdisciplinary study of major artistic, literary, philosophical, and religious aspects of the culture of the Islamic world in historical context.

295. The Cultural Traditions of Sub-Saharan Africa (A)
Fall, Winter, Spring. 4(4-0)
An interdisciplinary study of major artistic, literary, musical, philosophical, and religious aspects of the culture of Sub-Saharan Africa in historical context.

296. The Cultural Traditions of Japan (A)
Fall, Winter, Spring. 4(4-0)
An interdisciplinary study of major artistic, literary, philosophical, and religious aspects of the culture of Japan in historical context.

297. The Cultural Traditions of India (A)
Fall, Winter, Spring. 4(4-0)
An interdisciplinary study of major artistic, literary, musical, philosophical, and religious aspects of the culture of India in historical context.

298. The Cultural Traditions of China (A)
Fall, Winter, Spring. 4(4-0)
An interdisciplinary study of major artistic, literary, musical, philosophical, and religious aspects of the culture of China in historical context.

300. Supervised Individual Study
Fall, Winter, Spring, Summer. 1 to 4 credits. May enroll for a maximum of 12 credits.

HUMAN MEDICINE

500. Preceptorship Training
Fall, Winter, Spring, Summer. 3 to 12 credits. May enroll for a maximum of 36 credits. No more than 3 credits toward degree requirements. One year of medical school. Interdepartmental with the Department of Family Practice. Field experience in primary care taught by primary care physicians throughout the state to medical students from Michigan State University, University of Michigan and Wayne State University.
505. **Patient Interaction**
Fall, 2(2-0) ANT 505A concurrently. Students participate in experiences dealing with certain aspects of interviewing and performing a physical examination. Focus is primarily on self-observation and exploration of student-patient interaction.

510. **Introduction to Focal Problems**
Fall, 1 to 12 credits. Admission to College of Human Medicine.
Small group discussions concerned with instruction in the processes of medical problem solving and the integrated learning of basic and clinical medical science concepts around common problems seen in medical practice.

512. **Track I Focal Problems**
Spring, 1 to 12 credits. H M 510 or approval of college. Students may not receive credit in both H M 512 and H M 545, H M 546, H M 547.
Small group discussions concerned with instruction in the processes of medical problem solving and the integrated learning of basic and clinical medical science concepts around common problems seen in medical practice.

513. **Track I Focal Problems**
Fall, 1 to 12 credits. H M 512 or approval of college. Students may not receive credit in both H M 513 and H M 530, H M 531, H M 532.
Small group discussions concerned with instruction in the processes of medical problem solving and the integrated learning of basic and clinical medical science concepts around common problems seen in medical practice.

514. **Track I Focal Problems**
Winter, 1 to 12 credits. H M 513 or approval of college. Students may not receive credit in both H M 514 and H M 535, H M 536, H M 537.
Small group discussions concerned with instruction in the processes of medical problem solving and the integrated learning of basic and clinical medical science concepts around common problems seen in medical practice.

515. **Track I Focal Problems**
Spring, 1 to 12 credits. H M 514 or approval of college. Students may not receive credit in both H M 515 and H M 536, H M 537, H M 538.
Small group discussions concerned with instruction in the processes of medical problem solving and the integrated learning of basic and clinical medical science concepts around common problems seen in medical practice.

520. **Clinical Science**
Fall, 1 to 8 credits. H M 520 or approval of department.
Continuation of H M 520.

521. **Clinical Science**
Spring, 1 to 8 credits. H M 520 or approval of department.
Continuation of H M 520.

522. **Clinical Science**
Fall, 1 to 8 credits. H M 521 or approval of department.
Continuation of H M 521.

523. **Clinical Science**
Winter, 1 to 8 credits. H M 522 or approval of department.
Continuation of H M 522.

524. **Clinical Science**
Spring, 1 to 8 credits. H M 523 or approval of department.
Continuation of H M 523.

525. **Track II Focal Problem**
Fall, Winter, Spring, 6(0-0) Completion of H M 510, approval of college. Students may not receive credit in both H M 511 and H M 540, H M 541.
Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

541. **Track II Focal Problem**
Fall, Winter, Spring, 6(0-0) Completion of H M 540 or approval of college. Students may not receive credit in both H M 511 and H M 541, H M 542.
Clinical problems around which basic science content is studied and approaches to problem-solving explored in combined small group, self-instructional format.

545. **Track II Focal Problem**
Fall, Winter, Spring, 5(0-0) 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(0-0) 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.

550. **Track II Focal Problem**
Fall, Winter, Spring, 5(0-0) H M 547 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.

555. **Track II Focal Problem**
Fall, Winter, Spring, 5(0-0) H M 551 or approval of college. Students may not receive credit in both H M 514 and H M 555, H M 556, 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(0-0) H M 555 or approval of college. Students may not receive credit in both H M 514 and H M 555, H M 556, 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(0-0) H M 561 or approval of college. Students may not receive credit in both H M 515 and H M 556, H M 557, 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(0-0) H M 565 or approval of college. Students may not receive credit in both H M 515 and H M 556, H M 557, 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(0-0) H M 569 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.

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 experiential examples of psychological and social influences on biological levels of organization.

572. **Adult Through Aged Development**
Spring, 2(0-0) PHD 572
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(0-0) 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.
Descriptions — Human Medicine

Courses

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, Summer. 16(8-0). Must reenroll for a total of 32 credits. M 602.


605. Comprehensive Care Clerkship
Fall, Winter, Spring, Summer. 16(8-0). Must reenroll for a total of 32 credits. 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.

606. Sub-Specialty Clerkships
Fall, Winter, Spring. 1 to 17 credits. May reenroll for a maximum of 41 credits. M 602.

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

609. Fundamentals of Clinical Research
Fall, Winter, Spring, Summer. 8 credits. M 602.

Read and evaluate research based clinical literature. The research process from planning to implementation to summary.

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 powers 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 diplomatic developments. Approved through Fall 1990.

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

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.

INTERNAL MEDICINE

College of Osteopathic Medicine

590. Special Problems in Internal Medicine
Fall, Winter, Spring. 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. 2 to 24 credits. May reenroll for a maximum of 48 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 to 8 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 to 8 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 to 8 credits. May reenroll for a maximum of 12 credits. Grade P 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 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 to 8 credits. May reenroll for a maximum of 12 credits. Grade P in all courses offered in terms 1 through 8.

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
Fall, Winter, Spring, Summer. 6 to 8 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 and aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management, and therapy.

657. Emergency Medicine Clerkship
(O M 655.) Fall, Winter, Spring, Summer. 6 to 8 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.