Descriptions — Human Medicine (College of)

Courses

500. Preceptorship Training
Fall, Winter, Spring, Summer. 1 to 3 credits. 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.

506. Doctor-Patient Relationship
Spring. 2(2-0) ANT 505A; H M 520.

Identification of specified elements of communication and interview responses through the utilization of videotaped interviews. Focus on teaching self-observation, exploration of human interaction.

508. Immediate Care
Fall. 2(2-0) First year Human Medicine student.

Methods of administering immediate life saving and supportive measures in case of accident or medical emergency. Emphasis placed on cardiopulmonary resuscitation, fractures, unconsciousness, wounds, environmental injury and emergency childbirth.

510. Focal Problems
(S07) Fall. 1 to 10 credits.

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.

511. Focal Problems
Winter. 1 to 10 credits. 510 or approval of department.

Continuation of 510.

512. Focal Problems
Spring. 1 to 10 credits. 511 or approval of department.

Continuation of 511.

513. Focal Problems
Fall. 1 to 10 credits. 512 or approval of department.

Continuation of 512.

514. Focal Problems
Winter. 1 to 10 credits. 513 or approval of department.

Continuation of 513.

515. Focal Problems
Spring. 1 to 10 credits. 514 or approval of department.

Continuation of 514.

520. Clinical Science
(Winter. 1 to 8 credits.

The basic clinical skills of interviewing, physical examination and problem solving are taught in small group seminars utilizing models, patients and self-instructional materials.

521. Clinical Science
Fall. Winter, Spring. 521 or approval of department.

Continuation of 520.

522. Clinical Science
Fall. 1 to 8 credits. 521 or approval of department.

Continuation of 521.

523. Clinical Science
Winter. 1 to 8 credits. 522 or approval of department.

Continuation of 522.

524. Clinical Science
Spring. 1 to 8 credits. 523 or approval of department.

Continuation of 523.

530. Human Biology and Behavior
Winter. 1 to 8 credits.

A multidisciplinary course integrating the physiological and psycho-social aspects of each stage of human development, from conception to death, with significant clinical problems of that stage.

531. Human Biology and Behavior
Spring. 1 to 8 credits. 530 or approval of department.

Continuation of 530.

532. Human Biology and Behavior
Fall. 1 to 8 credits. 531 or approval of department.

Continuation of 531.

533. Human Biology and Behavior
Winter. 1 to 8 credits. 532 or approval of department.

Continuation of 532.

534. Human Biology and Behavior
Spring. 1 to 8 credits. 533 or approval of department.

Continuation of 533.

590. Special Problems in Human Medicine
Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 12 credits. Human Medicine students or approval of department.

Each student will work under direction of a faculty member of the college on an experimental, theoretical or applied problem. A student should employ this college level course, as distinguished from the departmental level special problems course, when his topic of interest seems to require a broad multidisciplinary approach.

602. Fundamentals of Patient Care
Fall, Winter, Spring, Summer. 15 credits. Approval of department.

Introductory clinical experiences using selected patients with a broad spectrum of medical, surgical, pediatric, and psychiatric problems. History taking, physical examination and problem formulation are taught as a basis for rational and effective patient care.

605. Sub-Specialty Clinics
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 41 credits. 605.

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

611. Anesthesiology Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 34 credits. 602.

Introducing common anesthetic agents and techniques, the Anesthesia Clerkship stresses pre-operative evaluation of physical and psychological status of patients and provides opportunity for performance of anesthetic procedures under supervision.

HUMAN NUTRITION AND FOODS

See Food Science and Human Nutrition

IMPROVEMENT SERVICES

All University

194. Quantitative Techniques
Fall, Winter, Spring. 2(2-0)

Proficiency test referral or approval of department.

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

100. Career Planning and Academic Programming
Winter, Spring. 1(1-0) Administered by University College.

Philosophical and practical aspects of making career choices and designing academic programs to meet career objectives. Tools and techniques for self-evaluation and evaluation of career alternatives; employability, trends in occupations.

200. Resource Ecology and Man
Fall, Winter, Spring. 3(0-0) Interdisciplinary with the following departments: Anthropology, Botany and Plant Pathology, Fisheries and Wildlife, Forestry, Geography, Park and Recreation Resources, Resource Development and Zoology. Administered by the Fisheries and Wildlife Department.

Mechanisms by which the environment regulates man and his resources. Ecology as the unifying basis for resource management. Resource conservation policy and environmental quality.
201. Introduction to Environmental Systems
(SYS 150) Fall, Winter, Spring. 3(3-0) Interdisciplinary with Systems Science and Engineering. Administered by Systems Science.

Basic systems concepts presented in a non-mathematical manner. Application to selected ecological topics, e.g., energy, water quality, food production, population dynamics. Interactive models provide opportunity for students to play decision-making role.

203. Introduction to Study of the Moon
Spring. 3(0-3) Interdisciplinary with the departments of Astronomy, Geography, and Geology and administered by the Geology Department.

Lunar science presented from the viewpoints of astronomy, geography and geology with particular emphasis on the increasing importance of the moon in man's present and future. Evening lunar observations required.

210. Introduction to Latin America I
Fall. 3(3-0) Interdisciplinary with the departments of Anthropology, Geography, History and Romance and Classical Languages. Administered by the Department of Romance and Classical Languages.

Specialists in Latin American geography, archaeology, cultural anthropology, and music introduce the student to life in Central and South America.

211. Introduction to Latin America II
Winter. 3(3-0) Interdisciplinary with the departments of Art, Romance and Classical Languages and Sociology. Administered by the Department of Romance and Classical Languages.

Specialists in the historical literature, art and society of Latin America introduce the student to the culture of the area.

219. Introduction to Latin America III
Spring. 3(3-0) Interdisciplinary with the departments of Economics, Political Science and Romance and Classical Languages. Administered by the Department of Romance and Classical Languages.

Specialists on Latin American political science, economics and contemporary literature introduce the student to Ibero-America.

220. The Politics of Ecology
Spring. 4(3-0) Interdisciplinary with the departments of Political Science and Social Science and administered by the Department of Social Science.

Political considerations fundamental to environmental issues. Theory, practice, and prescriptions for action are included. Economic, legal, and ethical factors influencing public policy decisions will be emphasized.

240. Religious Groups in Modern America
Fall, Winter, Spring. 3(3-0) Interdisciplinary with Justin Morrill College and the Department of Religious Studies. Administered by the Department of Religious Studies.

Basic beliefs, history and practices of modern religious movements in the U.S. Groups studied include those usually overlooked in basic courses, e.g., Bahá'í, Satanism, Rosencrucianism, Krishna Movement, Divine Light.

255. Continuing Resolution in China: Problems and Approaches
(399.) Fall. 4(4-0) Interdisciplinary with the departments of Anthropology, Geography, History and Political Science and James Madison College. Administered by the Department of History.

The continuing revolution in China viewed first historically, then as it has affected various sectors of Chinese society, and finally as it has affected China's relations with other nations.

256. Energy Consumption and Environmental Quality
(LEC 250.) Spring. 3(3-0) Interdisciplinary with Lyman Briggs College and the Physics Department. Administered by Lyman Briggs College.

The role of energy as a fundamental pollutant will be discussed along with the availability of fossil energy sources. Limitations on the safe utilization of both fossil and nuclear energy will also be considered.

320. Human Adjustment to Environment
Winter. 4(4-0) Completion of University College natural science and social science sequences. Sophomores. Interdisciplinary with the colleges of Social Science and Natural Science.

Our life support system and our energy and resource base; social, political, economic and philosophical concerns and consequences of observed and predictable trends for life in a finite environment. Local field trips.

341. Contemporary Problems of South Asia
Spring. 4(3-0) Not open to Freshmen. Interdisciplinary with the departments of Anthropology, Geography, and Political Science and administered by the Department of Political Science.

Current problems in India, Pakistan and adjoining areas, studied through regional case studies of population growth, agricultural and industrial development, urbanization, and international and international political and economic relationships.

344. Modernization: India, Pakistan, Bangladesh
Winter. 4(4-0) Not open to freshmen. Administered by the Department of Social Science.

Social, economic, and political development of three nations in the change from traditional, non-industrial, formerly colonial nations to the modern industrializing stage as independent nations.

345. Modernization: The Middle East
Winter, Spring. 4(4-0) Not open to freshmen. Administered by the Department of Social Science.

Social, economic, and political development of non-western cultures in the movement from the traditional, non-industrial to the modernizing, industrializing stage.

354. Contemporary Problems of Japan
(342.) Winter. 4(3-0) Not open to freshmen. Interdisciplinary with the departments of Anthropology, Geography, and History. Administered by the Department of Geography.

380. Survey of Sub-Saharan Africa
Winter. 4(4-0) Credits may be counted in any of the cooperating departments. Interdisciplinary with the following departments cooperating: Anthropology, Geography, History, Political Science, and Sociology. Administered by the Geography Department.

Africa introduced through integration of the approaches of several disciplines in the social sciences and humanities. Designed as basis for further work in departmental African area courses.

391. Survey of Sub-Saharan Africa
Spring. 4(4-0) Credits may be counted in any of the cooperating departments listed in 380. Administered by the Geography Department. Continuation of 380.

400V. Distinguished Visiting Professor Series
Fall, Winter, Spring. Variable credit. 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.

401. Interdisciplinary Issues in Aging
Winter. 4(4-0) Administered by University College.

Interdisciplinary and cross cultural exploration of the aging process. Concourse with aging as a personal experience as well as a biological, social and psychological event.

421. Seminar on Recent Advances in Science and Mathematics
Fall, Winter, Spring, Summer. 2(2-0) May re-enroll for a maximum of 6 credits. Bachelor's degree.

A structured course which cuts across the other four major offerings. Selected topics in recent developments will be discussed by staff members and guest lecturers. Recent research is stressed and effort is made to show the interrelatedness of the topics to general science course content materials.

432. Introduction to Meteorology
Spring. 3(3-0) Credit may be counted in either of the cooperating departments. Interdisciplinary with the Departments of Agricultural Engineering and Geology. Administered by the Agricultural Engineering Department.

A survey of atmospheric science including a study of the interactions between meteorology and living organisms.

433. Introductory Meteorology Laboratory
Spring. 1(0-2) 432 or concurrently.

Credit may be counted in either of the cooperating departments. Interdisciplinary with the departments of Agricultural Engineering and Geology. Administered by the Agricultural Engineering Department.

Weather map analysis, meteorological experimentation and instrumentation.
435. Microclimatology  
Fall, 3(2-0) BCH 108. Administered by Agricultural Engineering Department. The physical environment in the lower few hundred meters of the atmosphere and within the biosphere is described and the components of the energy budget are qualitatively evaluated.

447. Refugees, Displaced Persons, Hostages, Exiles  
(347.) Spring, 4(4-0) Juniors. Interdisciplinary with the departments of History, Political Science, Social Science and Sociology and administered by the Department of Social Science. The new refugee/ness is caused mainly by the new nations' emergence into independence. Course examines historical experiences, political causes and solutions, shocks and adjustments of assimilation, social life and organizations of refugees.

470. Biological Membranes  
Spring, 3(3-0) BCH 401. Interdisciplinary with the departments of Biochemistry, Biophysics, 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 summarized.

476. Canadian-American Studies  
Spring, 4(3-0) May re-enroll for a maximum of 8 credits. Juniors. Credits may be counted in any of the cooperating departments. Interdisciplinary with the following: Anthropology, Secondary Education, English, Geography, History, Marketing and Transportation Administration and Romance and Classical Languages. Administered by the Canadian-American Studies Committee. Introduction to Canadian-American Studies. Materials from various disciplines enable the student to integrate subject matter, areas, and methodology. Content varies from term to term, but course is always focused upon significant issues and subjects in the interrelated fields of Canada and the United States.

Winter, 4(5-0) Interdisciplinary with the following departments: Agriculture, Animal Husbandry, Crop and Soil Sciences, Dairy Science, Large Animal Surgery and Medicine, and Forestry Science, and administered by the Animal Husbandry Department. Role of the domesticated animal resources of the underdeveloped world as managed by man to produce essential nutrients to alleviate starvation and deficient disease and in diversifying economic development in the utilization of land resources.

538. Interdisciplinary Seminar on Africa  
Fall, 4 credits. Approval of department. Credits may be counted in any of the cooperating departments. Interdisciplinary with the following departments: Anthropology, Economics, Education, Geography, History, Linguistics, Political Science, and Sociology. Administered by the Anthropology Department. Behavioral science problems in an African setting, viewed from perspective of relevant social science and humanistic disciplines associated with the African Studies Center.

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) Students may not receive credit in both M C 111 and ATL 121, 131, 141, 151, 161, 171, 181, 191H. 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) 111. Students may not receive credit in both M C 112 and ATL 132, 142, 152, 162, 172, 182, 192H. 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) 112. Students may not receive credit in both M C 113 and ATL 155, 163, 173, 163, 193H. 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, Winter. 4(3-0) 200. 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  
Science Winter. 4(2-2) 201. Continuation of 200.

202. Introduction to the Study of Policy Problems  
Spring. 4(2-2) 201. Continuation of 201.

203. Methodology for Policy Sciences  
Fall, Winter, Spring. 4(3-0) 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.

213. 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  
Winter. 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 180. 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.

226. Socio-Cultural Factors in Developmental Change  
Spring. 4(3-0) 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.

227. Political Factors in Modernizing Societies  
Fall. 4(3-0) 220 recommended. External political factors related to the search for stability and development.

240. Applications of Economic Policy Analysis  
Spring. 4(3-0) EC 300 and 201 or 203.

250. The Contemporary American City  
Winter. 4(3-0) Analysis of urban social and political organization and the policy-making process. Selected topics such as urban neighborhoods, class and subculture and urban bureaucracy.

252. Urban Policy Problems  
Spring. 4(3-0) The study of contemporary urban problems, their policy implications and the role of these problems in future cities. Students must confront alternative solutions and their value assumptions.