477. Pest Management III: Systems Management for Plant Protection
Spring, 4(3-2) 435 and 436, FSM 200 or EC 201. Interdepartmental with Agriculture and Natural Resources.
Designed to integrate knowledge and improve ability in arriving at pest management decisions of varying complexity involving the fields of agronomy, wildlife, horticulture, entomology, and plant pathology.

471. Environmental Topics in Nonmetropolitan Regions
Fall, 4(4-0) Nomination of students by own department and approved by participating faculty. Interdepartmental with Natural Resources and Agriculture and administered by Natural Resource faculty.
Environmental topics in nonmetropolitan regions including issues on: production agriculture, service industries, nonagricultural uses, rural urban balance, discussion topics and case studies.

801. Special Problems in Electron Microscopy
Fall, Winter, Spring, Summer. 1 to 15 credits. Approval of instructor.

810. Methods in Transmission Electron Microscopy
Winter, Spring. 3(1-5) 460 or approval of instructor.
Use of the transmission electron microscopes and preparative instruments. Preparative techniques for biological and nonbiological materials. Photographic principles including interpretation of micrographs.

820. Methods in Scanning Electron Microscopy
Winter, Spring. 3(1-5) 460 or approval of instructor.
Use of the scanning electron microscope and preparative equipment. Preparative techniques for biological and nonbiological materials. Interpretation of micrographs.

830. Analytical Electron Microscopy
Fall, 2(1-3) 810 or 820 or approval of instructor.
Use of X-ray analysis on electron microscopes and electron microprobes with biological and physical materials. Methods of preparation and analysis of product data.

NURSING

College of Natural Science

205. Foundations of Nursing
Fall, 3(2-3) Approval of school.
Introduction to principles basic to identifying nursing problems and their use in sound planning of patient care.

206. Foundations of Nursing
Winter. 4(3-3) 305.
Fundamental principles are presented as they relate to the care of the whole person; identification of problems confronting the individual in illness, methods of approach to the patient as a person whereby joint effort may contribute to improved well-being and/or recovery.

207. Foundations of Nursing
Spring. 4(2-2) 206.
Continues building on concepts, using principles and knowledge introduced in the foregoing nursing courses. The student now moves into the clinical area where practice in the nursing of patients becomes the focus of application of past learning and study.

303. Medical and Surgical Nursing
Fall, Spring. 12 credits. 207.
Care of individuals receiving medical and surgical therapy with emphasis on integration of preventive, emotional, and social aspects of illness, pathological relationships, and all forms of therapy and rehabilitation as they relate to medical and surgical nursing. Instruction and guided practice.

304. Medical and Surgical Specialties
Winter, Summer. 12 credits. 303.
Continuation of 303.

305. Maternity Nursing
Fall, Winter, Spring, Summer. 12 credits. Approval of school.
Nursing through pregnancy, parturition, and puerperium, including care of the new born. Instruction and guided practice.

306. Nursing of Children
Fall, Winter, Spring. 12 credits. 302; FCS 265B.
Normal growth and development from infancy through adolescence care and health supervision of well children, treatment and rehabilitation of sick and handicapped children. Instruction and guided practice.

400H. Honors Work
Fall, Winter, Spring. 1 to 12 credits. Approval of school.

402A. Psychiatric Nursing of Individuals
(402.) Fall, Winter, Spring. 6 credits. Seniors. 402B concurrently.
Provides opportunities to develop skill in utilizing concepts and principles relevant to creating and maintaining therapeutic interpersonal relationships; individual and group participation with other professionals in providing comprehensive mental health services to the mentally ill individual and his family.

402B. Group Process and Community Action in Psychiatric Nursing
(402.) Fall, Winter, Spring. 6 credits. Seniors. 402A concurrently.
Provides opportunity to develop skill in utilizing concepts and principles of group and community action in providing nursing intervention in programs for primary, secondary, and tertiary prevention in community mental health.

403A. Introduction to Public Health
Fall, Winter, Spring. 4(4-0) Majors or approval of school.
Public health, development, organization, and responsibilities of public health are explored in the light of the current economic and political climate. An introduction to vital statistics, epidemiology, and environmental health is included. Provides a frame of reference for practice in this field.

403B. Public Health Nursing
Fall, Winter, Spring. 8(4-16) Seniors.
Relationships between public health nursing and other health and welfare services. Guided practice is provided for students working with individuals, families, and community resources. Major focus is on health maintenance, health promotion and nursing care to the sick in their homes. Roles, responsibilities, and functions of the nurse in the community are stressed.

404. Leadership and Management
Fall, Winter, Spring. 8(4-16) Senior majors.
Three areas of emphasis are leadership, management and problem-solving within health care work groups. Clinical experience throughout the term is continuous within one work group. Clinical laboratory in community hospitals and agencies.

407. Introduction to Nursing Research
Fall, Winter, Spring. 2(2-0) Seniors in School of Nursing.
Critical reading and critique of nursing research literature; define research terminology and procedures and apply to clinical nursing through discussion and writing.

408. Nursing Issues and Trends
(408.) Fall, Winter, Spring. 2(2-0) Seniors.
Covers current issues; past, present and future trends in nursing through lectures, seminars, group discussions, special projects.

409. Special Problems in Nursing
Fall, Winter, Spring. Summer. 1 to 6 credits. May re-enroll for a maximum of 13 credits. Approval of department.
Exploration of certain areas in nursing in greater depth and from different perspective than possible within the limits of required courses.

550. Interdisciplinary Health Care Seminar I
Winter. 3(2-0) Approval of school.
Discusses issues, problems and theories related to interdisciplinarity cooperation, collaboration, conflict and negotiation. Analysis of situations in practice will be a part of course. Focus on nurse's role and relationships in interdisciplinary provided system.

551. Interdisciplinary Health Care Seminar II
Spring. 2(2-0) Approval of school.
Application of methods of using health care evaluation to bring about changes in health care practice. Concepts of change and evaluation will be an important component. Students will design a plan of change based on evaluation from clinical practice.

552. Interdisciplinary Health Care Seminar III
Summer. 3(3-0) Approval of school.
Application of analysis of the organizational components of family practice. Identification of components of third-party payer activities, data and information systems, and analysis of classification systems, as well as patient management protocols will be included.

560. Ambulatory Nursing Seminar I
Fall. 3(3-0) Approval of school.
Introductory principles of care in family practice setting. Assists nurse in beginning to identify and develop own specialty role in setting with focus on wellness and prevention of illness.

561. Ambulatory Nursing Seminar II
Winter. 3(3-0) 560.
Implications of illness on cognitive, psychosocial, cultural, emotional status of family. Importance of nursing role in family care is stressed. Beginning discussion of case load determination, compliance and evaluation of care.
597. Research for Thesis
Fall, Winter, Spring. 1 to 3 credits.
May re-enroll for a maximum of 10 credits. Approval of school.
Thesis for completion of the master's degree in nursing. Must have a clinical orientation and must relate directly to the patient's disease process or the delivery of ambulatory care to the patient as it affects the management of the disease process. The research process must apply to nursing and solution of nursing problems and include the development of a theoretical rationale for selection of appropriate methodology.

598. Obstetrics, Gynecology and Reproductive Biology
College of Human Medicine

600. Obstetrics/Gynecology Clerkship
Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. H M 602.
Experience with gynecologic and obstetrical patients, in in-patient and out-patient settings, under the direction of community practitioners and members of the MSU faculty.

599. Clinical Science IV
Summer. 1(0-3) Admission to a college of medicine. Continuation of 532.

590. Clinical Science V
Fall. 1(0-3) Admission to a college of medicine.
A clinic-based program providing additional emphasis on history taking and physical examination as well as developing fundamental abilities in diagnosis and problem solving in the clinic setting.

595. Systema Biology I
(O M 530.) Spring. 3 to 12 credits. Admission to a professional medical program.
A multidisciplinary approach to the hematopoietic systems providing a functional integration of basic science and clinical information.