NATURAL SCIENCE NSC (COLLEGE OF)

230. The Role of the Natural Sciences in Future Environments
Fall. 4(4-0) Approval of college. Interdepartmental with the departments of Entomology, Geology, Physics, and Zoology.
Physical and biological science concepts relevant to understanding environmental issues. Options for action in areas of population size, energy and life support system. Illustrated by case studies.

390H. The Human Organism
Winter. 3(3-0) Juniors; approval of the Honors College.
The importance of new discoveries in biology for our understanding of the human organism with emphasis from the fields of genetics, molecular biology, behavior, developmental biology, physiology and ecology.

391H. Man's Universe
Fall. 3(3-0) Juniors; approval of the Honors College.
A creative review by senior faculty from astronomy, biochemistry, biophysics, geology, physics, and philosophy of the impact of recent space probes in developing modern concepts of the universe, the origin of the earth and life upon it.

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 Resources.
Environmental topics in nonmetropolitan regions including issues on: production agriculture, service industries, nonagricultural uses, rural urban balance, discussion topics and case studies.

500. Electron Microscopy of Biological Material
Fall, Spring. 4(2-6) Approval of instructor.
Preparation of biological material for observation in the electron microscope; operation and principles of the electron microscope; associated electron microscope photography and darkroom techniques.

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

NURSING N E

College of Natural Science

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

206. Foundations of Nursing
Winter. 4(3-3) 205.
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, whose joint effort may contribute to improved well-being and/or recovery.

207. Foundations of Nursing
Spring. 4(2-0) 206.
Continues building on concepts, using principles and knowledge introduced in the preceding nursing course. The laboratory 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. 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, Summer. 12 credits. 207, 208.
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, Summer. 1 to 12 credits. Approval of school.

402. Psychiatric Nursing of Individuals
Fall, Winter, Spring. 3 credits. 402.
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.

402A. Psychiatric Nursing of Individuals
Fall, Winter, Spring. 6 credits. 402B concurrently.
Provides opportunities to develop skill in utilizing concepts, principles and dynamics of group and community interactions relevant to 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.
Philosophy, 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(4-10) 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. Survey of Nursing
Fall, Winter, Spring. 4 credits. Seniors.
Development of nursing to present status, current problems and long-term goals. Studies of service open to graduate nurses, nursing organizations, national, state and local, their services and objectives.

406. Nursing Leadership and Management
Fall, Winter, Spring. 8(4-18) Senior majors.
Three areas of emphasis are leadership, management and problem-solving within health care work groups. Clinical experience throughout the term is continue within one work group. Clinical laboratory in community hospitals and agencies.

490H. Special Problems in Nursing
Fall, Winter, Spring. 1 to 6 credits. May re-enroll for a maximum of 12 credits. Approval of department.
Exploration of certain areas in nursing in greater depth and/or from a different perspective than possible within the limits of required courses.

OSTEOPATHIC MEDICINE* O M

College of Osteopathic Medicine

501. Medical Biology I
Fall. 4(4-0)
Integrated aspects of biology providing a foundation and vocabulary preparatory to studies in osteopathic medicine.

502. Medical Biology II
Winter. 3 to 8 credits. Admission to a college of medicine.
Continuation of 501 emphasizing pathology and pharmacology.

530. Clinical Science I
Fall. 2(1-3) Admission to a college of medicine.
Fundamental concepts and skills essential to the performance of a clinical history and physical examination.

531. Clinical Science II
Winter. 2(2-0)
Techniques, concepts and skills required for competent history taking and physical examination utilizing lectures, laboratory and films for instructional purposes.

532. Clinical Science III
Spring. 1(0-3) Admission to a college of medicine
A clinical study program providing an opportunity to learn the skills of history taking and physical examination by actual performance of the involved techniques on patients under physician supervision.

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

*Established July 1, 1971.

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