

Descriptions – NATURAL SCIENCE (College of)
of
Courses

810. Methods in Transmission Electron Microscopy
Fall, Winter, Spring. 3(1-5) NSC 802 or concurrently.
 Use of the transmission electron microscopes and preparative instruments. Preparative technique for biological and nonbiological materials. Photographic principles including interpretation of micrographs.

820. Methods in Scanning Electron Microscopy
Fall, Winter, Spring. 3(1-5) NSC 802 or concurrently.
 Use of the scanning electron microscope and preparative equipment. Preparative technique for biological and nonbiological materials. Interpretation of micrographs.

830. Analytical Electron Microscopy
Fall, Winter, Spring. 2(1-3) NSC 802 or concurrently.
 Use of X-ray analysis on electron microscopes and electron microprobes with biological and physical materials. Methods of preparation and analysis of product data.

401. Nursing VI
Winter, Summer. 10(4-18) N E 400.
 Individuals in compensated-decompensated health states, families in diminished-unstable health states, and communities in optimal health states. Functions interdependently within health care teams. Applies research findings to practice.

405. Nursing VII
Fall, Spring. 10(3-21) N E 401.
 Integration of nursing, biological and behavioral sciences stressing application of the nursing process to the care of individuals, families and communities in depleted health states. Applies research findings to practice.

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

440. Clinical Problems in Adaptation I
Fall, Summer. 5(5-0) PSL 241 and approval of school.
 Homeostasis; range of physiological alterations to stress. Man's adaptive-maladaptive responses.

441. Clinical Problems in Adaptation II
Fall, Winter. 5(5-0) N E 440 and approval of school.
 Continuation of N E 440.

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

490H. Honors Work
(400H.) Fall, Winter, Spring, Summer. 1 to 12 credits. Approval of school.

495. Selected Topics in Nursing
Fall, Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 6 credits if different topic is taken. Approval of school.
 Allows exploration of unique issues in nursing. Topics to be selected from current issues.

521. Evaluation of Health Services
Spring. 2 to 4 credits. Approval of instructor. Interdepartmental with and administered by the Department of Community Health Science.
 Use of experimental and quasi-experimental designs. Cost benefit and efficiency models. Assessment of health services delivery.

540. Family Health Seminar
(561.) Fall. 3(3-0) Majors or approval of instructor.
 Conceptual frameworks of family. Assessment of family health behavior.

541. Facilitating Patient Participation
(552.) Winter. 2(2-0) N E 564 or approval of instructor.
 Learning theories and methods to promote patient self care.

564. Primary Care Seminar I: Role of Family Nurse Clinician
(560.) Fall. 2(2-0) Approval of instructor.
 Role of the Family Nurse Clinician in primary care.

565. Primary Care Seminar II: Interdisciplinary Team Functioning
(550.) Winter. 2(2-0) Approval of instructor.
 Theories of team functioning. Communication, consultation, collaboration, conflict and decision making. Role strategies.

566. Primary Care Seminar III: Organizational Structure
(562.) Spring. 3(3-0) N E 564, N E 565 or approval of instructor.
 Organization of primary care. Administration of the nursing service.

567. Primary Care Seminar IV: Health Care Policy
(563.) Summer. 3(3-0) N E 566 or approval of instructor.
 Policy influence on health care delivery systems.

570. Nursing Theories and Conceptual Models
Fall. 3(3-0) STT 421 or approval of instructor.
 Issues, problems and processes of theory and concept development.

580. Nursing Clinician Practicum I
Winter. 5(3-6) N E 564, N E 540, approval of school.
 Beginning skill development in physical assessment, interviewing, history taking and health assessment of adult and child. Limited clinical experience with selected patients.

581. Nursing Clinician Practicum II
Spring. 5(2-9) N E 580, approval of school.
 Nursing management of clients in primary care. Health maintenance and health promotion. Single acute problems. Continuity of care. Longitudinal study of a family.

582. Nursing Clinician Practicum III
Summer. 5(2-9) N E 581, approval of school.
 Management skills for clients in diminished-unstable and compensated-decompensated health states in primary care. Longitudinal study of a family.

583. Nursing Clinician Practicum IV
Fall. 5(2-9) N E 582, approval of school.
 Management skills for clients in depleted-decompensated and depleted-compensated health states in primary care. Longitudinal study of a family.

590. Special Problems
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Approval of instructor.
 Individual or group in-depth study of specific areas in nursing. Independent study.

NURSING (COLLEGE OF)

NE

(Effective July 1, 1980. Formerly School of Nursing.)

College of Natural Science

200. Nursing I
Spring. 4(4-0) Admission to School of Nursing.
 Concepts and theories of nursing, science and Man in relation to professional nursing practice. Role of nursing in contemporary society.

300. Nursing II
Fall, Summer. 10(7-9) N E 200.
 Independent nursing role. The well individual. Holistic approach to Man. Impact of developmental levels upon client health. Application of nursing process in maintaining wellness.

301. Nursing III
Fall, Winter. 10(6-12) N E 300.
 Independent nursing role. Application of nursing process in a variety of health care settings. Healthy clients adapting to stress at all stages in the life cycle.

302. Nursing IV
Winter, Spring. 10(5-15) N E 301, N E 441.
 Promotion of adaptation of individuals in diminished-stable health states and families in stable health states. Relates research findings to practice.

400. Nursing V
Fall, Spring. 10(5-15) N E 302, N E 407.
 Individuals in diminished-unstable health states and families in stable health states. Community assessment skills. Interdisciplinary approach to health care systems. Relates research findings to practice.

595. Selected Topics
Fall, Winter, Spring, 2 to 6 credits.
May reenroll for a maximum of 6 credits if
different topics are selected. Approval of
instructor.
Selected issues, trends, programs or theories in
nursing.

899. Master's Thesis Research
(599.) Fall, Winter, Spring, Summer, 1
to 6 credits. May reenroll for a maximum of 15
credits. N E 570, approval of instructor.
Clinical problem related to primary health care.

**OBSTETRICS, GYNECOLOGY
AND REPRODUCTIVE
BIOLOGY OGR**

College of Human Medicine

**533. Introduction to Obstetrics
and Gynecology**
Winter, 1(1-0) Admission to a college of
medicine or approval of department; H M 514
concurrently.
Normal physiology and endocrinology of
menstrual cycle, conception, pregnancy, and
labor. Diagnosis of high risk pregnancy.

**608. Obstetrics/Gynecology
Clerkship**
Fall, Winter, Spring, Summer, 1 to 17
credits. May reenroll 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.

**609. Obstetrics and Gynecology
Advanced Clerkship**
Fall, Winter, Spring, Summer, 4 to 16
credits. May reenroll for a maximum of 16
credits. OGR 608, approval of department and
approval of community coordinator.
Advanced clinical experience in gynecology and/
or obstetrics.

**610. Gynecology Ambulatory
Clinic**
Fall, Winter, Spring, Summer, 4 to 16
credits. May reenroll for a maximum of 16
credits. H M 602.
Contraception, management of abnormal Pap
smear, pregnancy and abortion counseling, and
general office gynecology.

**611. Case Studies in Obstetrics
and Gynecology**
Fall, Winter, Spring, Summer, 8 to 16
credits. May reenroll for a maximum of 16
credits. H M 602.
The student will design, pretest and field test a
simulation of a clinical problem in obstetrics and
gynecology.

OSTEOPATHIC MEDICINE O M

College of Osteopathic Medicine

532. Clinical Science III
Winter, 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
Spring, 1(0-3) Admission to a college of
medicine or approval of department.
Continuation of O M 532.

534. Clinical Science V
Summer, 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.

535. Clinical Science VI
Fall, 1(0-3) Admission to a college of
medicine.
A continuation of O M 534.

536. Clinical Science VII
Winter, 1(0-3) Admission to a college of
medicine.
Continuation of O M 535.

537. Clinical Science VIII
Spring, 1(0-3) Admission to a college of
medicine.
Continuation of O M 536.

**590. Special Problems in
Osteopathic Medicine**
Fall, Winter, Spring, Summer, 1 to 8
credits. May reenroll for a maximum of 32
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, Summer, 2 to 24
credits. May reenroll for a maximum of 48
credits. Admission to a college of medicine or
approval of department.
Individual or group work on special problems in
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. Obstetrics—Gynecology
Clerkship**
Fall, Winter, Spring, Summer, 12
credits. Grade P in all courses offered in terms 1
through 8.
Clinical exposure in obstetrics and gynecology.
Program developed to achieve efficiency in
obstetrical patient evaluation, management;
motor skills, aptitudes; care of new born;
evaluation of postpartum patient; management of
gynecologic problems.

**653. Surgery/Anesthesiology
Clerkship**
Fall, Winter, Spring, Summer, 12
credits. Grade P in all courses offered in terms 1
through 8.
Clinical exposure in area of surgical diagnosis,
management, treatment. Program structure
developed to achieve proficiency in motor skills,
aptitudes; comprehension of concepts and
principles; patient evaluation, diagnosis,
management, and therapy.

654. Anesthesiology Clerkship
Fall, Winter, Spring, Summer, 4
credits. Grade P in all courses offered in terms 1
through 8.
Clinical exposure in area of anesthesiology.
Program structure developed to achieve
proficiency in motor skills, aptitudes;
comprehension of concepts and principles; patient
evaluation, diagnosis, management, and therapy.

**655. Emergency Medicine
Clerkship**
Fall, Winter, Spring, Summer, 4
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.

656. Orthopedics Clerkship
Fall, Winter, Spring, Summer, 4
credits. Grade P in all courses offered in terms 1
through 8.
Clinical exposure in area of orthopedics. Program
structure developed to achieve proficiency in
motor skills, aptitudes; comprehension of
concepts and principles; patient evaluation,
diagnosis, management, and therapy.

657. Neurology Clerkship
Fall, Winter, Spring, Summer, 4
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, aptitudes; comprehension of
concepts and principles; patient evaluation,
diagnosis, management, and therapy.

**658. Otorhinolaryngology
Clerkship**
Fall, Winter, Spring, Summer, 4
credits. Grade P in all courses offered in terms 1
through 8.
Clinical exposure in area of otorhinolaryngology.
Program structure developed to achieve
proficiency in motor skills, aptitudes;
comprehension of concepts and principles; patient
evaluation, diagnosis, management, and therapy.