

899. **Master's Thesis Research**

Fall, Winter, Spring, 1 to 6 credits.
May reenroll for a maximum of 15 credits. N E 576, approval of instructor.
Clinical research problem related to primary health care.

OBSTETRICS, GYNECOLOGY AND REPRODUCTIVE BIOLOGY OGR

College of Human Medicine

608. **Obstetrics/Gynecology Clerkship**

Fall, Winter, Spring, Summer, 1 to 17 credits. May reenroll for a maximum of 43 credits. FMP 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.

OSTEOPATHIC MEDICINE OM

College of Osteopathic Medicine

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.

651. **Obstetrics—Gynecology Clerkship**

Fall, Winter, Spring, Summer, 8 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; evaluation of postpartum patient; management of gynecologic problems.

653. **Surgery Clerkship**

Fall, Winter, Spring, Summer, 8 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 to 8 credits. Grade P in all courses offered in Terms 1 through 8.
Clinical exposure in the area of anesthesiology. Motor skills; concepts and principles; patient evaluation, management, and therapy.

656. **Orthopedics 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 orthopedics. 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, 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 otorhinolaryngology. Program structure developed to achieve proficiency in motor skills, aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management, and therapy.

OSTEOPATHIC MEDICINE OST (COLLEGE OF)

500. **Basic Concepts in Biomechanics**

Winter, 2(2-0) Admission to a college of medicine or approval of department. Interdepartmental with and administered by the Department of Biomechanics.
Basic concepts of biomechanics and their relationship to functional anatomy and osteopathic manipulative therapy.

516. **Medical Ethics**

Winter, 3(3-0) Interdepartmental with and administered by the College of Human Medicine.
Analysis and evaluation of the ethical elements of medical decision making. Topics include: patient rights, physician responsibilities, euthanasia, informed consent, parentalism, confidentiality, biomedical research, and allocation of scarce resources.

520. **Normal Endocrine Structure and Function**

Spring, 3 credits. BCH 502.
An integrated basic science course presenting a series of lectures and laboratories related to the normal structure and function of the endocrine organs. Prerequisite for studying endocrine diseases in systems biology.

530. **Comprehensive Patient Evaluation I**

Fall, 2 to 6 credits. Admission to a college of medicine. ANT 565 or concurrently.
Interdepartmental course in physical examination skills. Stresses comprehensive, osteopathic evaluation of the patient.

531. **Comprehensive Patient Evaluation II**

Winter, 2 to 6 credits. OST 530, ANT 565.
Continuation of OST 530.

Osteopathic Medicine — Description of Courses

532. **Comprehensive Patient Evaluation III**

Spring, 4 credits. OST 531.
Interdepartmental course in physical examination skills. Stresses application of comprehensive, osteopathic evaluation of the patient. Introduction to office procedures and physical diagnosis.

533. **Comprehensive Patient Evaluation IV**

Fall, 2 to 6 credits. OST 532.
Interdepartmental course in physical examination skills. Stresses comprehensive, osteopathic evaluation of the patient. Includes preceptorship and appropriate systems biology clinical experiences.

552. **Systems Biology - Integumentary**

Summer, 2 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521, PTH 502.
A multidisciplinary approach to the integumentary system providing a functional integration of basic science and clinical information.

553. **Systems Biology - Nervous System**

Fall, 10 credits. ANT 563, PSL 500A, PTH 502, BCH 502, PHM 521, MPH 521.
A multidisciplinary approach to the nervous system providing a functional integration of basic science and clinical information.

554. **Systems Biology - Cardiovascular**

Spring, 15 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521, PTH 502.
A multidisciplinary approach to the cardiovascular system providing functional integration of basic science and clinical information.

555. **Systems Biology - Respiratory**

Summer, 8 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521, PTH 502.
A multidisciplinary approach to the respiratory system providing functional integration of basic science and clinical information.

556. **Systems Biology - Urinary**

Fall, 7 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521, PTH 502.
A multidisciplinary approach to the urinary system providing functional integration of basic science and clinical information.

557. **Systems Biology - Gastrointestinal**

Winter, 13 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 520, PTH-502.
A multidisciplinary approach to the gastrointestinal system providing functional integration of basic science and clinical information.

558. **Systems Biology - Growth and Development**

Fall, 5 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PTH 502.
A multidisciplinary approach to growth and development within the field of pediatrics providing functional integration of biological, behavioral and clinical sciences.

559. **Systems Biology - Reproductive**

Fall, 7 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PTH 502.
A multidisciplinary approach to the male and female reproductive system providing functional integration of basic science and clinical information (includes obstetrics and gynecology).