

**655. Emergency Medicine Clerkship**  
Fall, Winter, Spring, Summer. 4 credits. Grade P in all courses offered in terms 1 through 8 or approval of department.

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 or approval of department.

Clinical exposure in area of orthopedics. Program structure developed to achieve proficiency in motor skill, 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 or approval of department.

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 or approval of department.

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. Historical and Biological Foundations of Osteopathic Medicine**

Summer. 2(3-0) Admission to a professional medical program.

Historical development of the osteopathic profession. Integration of biological and osteopathic principles in the consideration of health and disease.

**520. Normal Endocrine Structure and Function**

Spring. 3(2-2) PSL 500A, BCH 502 or approval of department.

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**

Summer. 2 to 6 credits. Admission to a college of medicine.

Interdepartmental course in physical examination skills. Stresses comprehensive, osteopathic evaluation of the patient.

**531. Comprehensive Patient Evaluation II**

Fall. 2 to 6 credits. OST 530.

Continuation of OST 530.

**532. Comprehensive Patient Evaluation III**  
Winter. 2 to 6 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**  
Spring. 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.

**534. Comprehensive Patient Evaluation and Management I**  
Summer. 2 to 6 credits. OST 533.

Interdepartmental course in physical examination skills, diagnosis and patient management. Stresses comprehensive, osteopathic evaluation and management of the patient. Includes preceptor assignment and appropriate systems biology clinical experiences.

**535. Comprehensive Patient Evaluation and Management II**  
Fall. 2 to 6 credits. OST 533.

Continuation of OST 534.

**536. Comprehensive Patient Evaluation and Management III**  
Winter. 2 to 6 credits. OST 533.

Continuation of OST 535.

**537. Comprehensive Patient Evaluation and Management IV**  
Spring. 2 to 6 credits. OST 533.

Continuation of OST 536.

**551. Systems Biology I**  
(O M 550.) Fall. 3 to 12 credits. ANT 560, BCH 501.

A multidisciplinary approach to the hematopoietic systems providing a functional integration of basic science and clinical information.

**552. Systems Biology II**  
Spring. 3 to 6 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521B, PTH 502.

A multidisciplinary approach to the integumentary system providing a functional integration of basic science and clinical information.

**553. Systems Biology III**  
(O M 551.) Spring. 5 to 15 credits. ANT 563, PSL 500A, PTH 502, BCH 502, PHM 520B, MPH 521.

A multidisciplinary approach to the nervous system providing a functional integration of basic science and clinical information.

**554. Systems Biology IV**  
(O M 552.) Fall. 5 to 15 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521B, PTH 502.

Continuation of OST 553 with emphasis on multidisciplinary approach to the cardiovascular system.

**555. Systems Biology V**  
(O M 553.) Winter. 5 to 10 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521B, PTH 502.

Continuation of OST 554 with emphasis on multidisciplinary approach to the respiratory system.

**556. Systems Biology VI**  
(O M 553.) Winter. 5 to 10 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521B, PTH 502.

Continuation of OST 555. This system will represent a multidisciplinary approach to the urinary system.

**557. Systems Biology VII**  
(O M 554.) Spring. 5 to 15 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521B, PTH 502.

Continuation of OST 556 with emphasis on multidisciplinary approach to the gastrointestinal system and metabolism.

**558. Systems Biology VIII**  
(O M 555.) Summer. 5 to 15 credits. ANT 560, ANT 565, PSL 500A, MPH 521, BCH 502, PHM 521B, PTH 502.

Continuation of OST 557 with emphasis on multidisciplinary approach of the growth and development within (but not limited to) the field of pediatrics, obstetrics and gynecology.

**590. Special Problems**  
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.

**610. The Osteopathic Examination I**  
(F M 630.) Fall. 1(0-4) Admission to a college of medicine or approval of instructor.

Instruction in the osteopathic examination.

**611. The Osteopathic Examination II**  
(F M 640.) Winter. 1(0-4) OST 610 or approval of instructor.

Continuation of OST 610.

**612. The Osteopathic Examination III**  
(F M 650.) Spring. 1(0-4) OST 611 or approval of instructor.

Continuation of OST 611.

**613. The Osteopathic Examination IV**  
(F M 660.) Summer. 1(0-4) OST 612 or approval of instructor.

Continuation of OST 612.

**614. The Osteopathic Examination V**  
(F M 670.) Winter. 1(0-4) OST 612 or approval of instructor.

Continuation of OST 613.

**615. The Osteopathic Examination VI**  
(F M 680.) Winter. 1(0-4) OST 612 or approval of instructor.

Continuation of OST 614.

**616. The Osteopathic Examination VII**  
(F M 690.) Fall, Winter, Spring, Summer. 1(0-4) OST 613, OST 614, OST 615 or approval of instructor.

Continuation of OST 615.

**620. Systems Biology--Directed Studies**  
Fall, Winter, Spring, Summer. 1 to 15 credits. Admission to a professional medical program or approval of coordinator.

A directed study in systems biology for the continuing advanced student or remediation of any systems biology: hematopoietic, integumentary, nervous, cardiovascular, respiratory, urinary, gastrointestinal, growth and development.