531. Clinical Science II
Fall, Winter. 3 credits. Techniques, concepts and skills required for competent history taking and physical examination utilizing lectures, laboratory and films for instructional purposes.

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 531.

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.

600. Clinical Science Practicum
Fall, Winter, Summer. 2 to 12 credits. May reenroll for a maximum of 80 credits. Grade P in all courses offered in terms 1 through 8 or approval of department. A clinic oriented course covering the major areas of medical practice including involvement in Family Practice and Community Health Services.

620. Directed Studies
Fall, Winter, Spring. 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. 2 to 16 credits. May reenroll for a maximum of 16 credits. Grade P in all courses offered in terms 1 through 8 or approval of department. Clinical exposure to osteopathic medicine. Program developed to achieve proficiency in motor skills and aptitudes; comprehension of concepts and principles; patient evaluation, diagnoses, management, and therapy.

651. Obstetrics-Gynecology Clerkship
Fall, Winter, Spring, Summer. 8 credits. Grade P in all courses offered in terms 1 through 8 or approval of department. Clinical exposure in obstetrics and gynecology. Program developed to achieve efficiency in obstetrical patient evaluation, management, motor skills, aptitudes; care of newborn; evaluation of postpartum patient; management of gynecologic problems.

652. Pediatrics Clerkship
Fall, Winter, Spring, Summer. 8 credits. Grade P in all courses offered in terms 1 through 8 or approval of department. Practical clinical exposure in the area of pediatrics. Program developed to achieve proficiency in motor skills and aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management and therapy.

653. Surgery Clerkship
Fall, Winter, Spring, Summer. 8 credits. Grade P in all courses offered in terms 1 through 8 or approval of department. 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 or approval of department. 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 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 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 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. Otolaryngology 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 otolaryngology. 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
Fall, Winter. 2(2-0) 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. Introduces 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 preceptorship to assignment and appropriate systems biology clinical experiences.

535. Comprehensive Patient Evaluation and Management II
Spring. 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.
A multidisciplinary approach to the hematopoietic systems providing a functional integration of basic science and clinical information.

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

A multidisciplinary approach to the gastrointestinal system.

A multidisciplinary approach to the hematopoietic system.

A multidisciplinary approach to the respiratory system.

A multidisciplinary approach to the endocrine system.

A directed study in systems biology for the continuation of OSS 554 with emphasis on multidisciplinary approach to the cardiovascular system.

A directed study in systems biology for the continuation of OSS 554 with emphasis on multidisciplinary approach to the gastrointestinal system.

A directed study in systems biology for the continuation of OSS 554 with emphasis on multidisciplinary approach to the nervous system.

A study of the protective function of the packaging systems in relation to their environment and shock and vibration isolation methods. A one-day field trip is required.

Development of solutions to specific packaging problems.

The integrated study of the operation structure and control of the packaging and packaging-making process. A one-day field trip is required.

A study of the functions of each area concerned with the development of packages to meet present-day requirements of protection and merchandising.

Examination of economic issues in packaging as they relate to policies of the firm and of government. Relationships between economic policy and social issues.

The components for automated packaging lines, and auxiliary materials handling equipment, including consideration of design, selection, specification, and operation of machinery for the packaging and packaging-filling operations. One-day field trip required.

Discussions on current packaging problems.

Analysis of various existing packaging systems; problem solving exercises.

A comprehensive study of the relationship of the storge life of packaged food and agricultural products and the gas, moisture, and vapor permeability of packages in various environments.

Computer aided package design.