542. Integrative Clinical Correlations II
Spring: 1(3-2)
P: OST 541.
Application of basic science information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

543. Integrative Clinical Correlations III
Summer: 1 credit.
P: OST 542.
Application of basic science information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

544. Integrative Clinical Correlations IV
Fall: 1 credit.
P: OST 543. R: Approval of college.
Application of systems biology information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

545. Integrative Clinical Correlations V
Spring: 1 credit.
P: OST 544. R: Approval of college.
Application of systems biology information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

546. Integrative Clinical Correlations VI
Summer: 1 credit.
P: OST 545. R: Approval of college.
Application of systems biology information, problem-solving, and clinical skills in an integrated clinical case format. Case presentations by students and faculty.

551. Issues in Minority Health
Fall, Spring, Summer: 3(3-0)
R: Open only to graduate and graduate-professional students in the Colleges of Osteopathic Medicine, Human Medicine, and Nursing or approval of college.
Patterns of health and illness in minority populations.
SA: CMS 515

590. Special Problems
Fall, Spring, Summer: 1 to 24 credits. A student may earn a maximum of 60 credits in all enrollments for this course.
R: Open only to graduate professional students in College of Osteopathic Medicine. Approval of college. Individual study directed by a faculty member on an experimental, theoretical, or applied problem.

OSTEOPATHIC SURGICAL SPECIALTIES — OSS

Department of Osteopathic Surgical Specialties
College of Osteopathic Medicine

512. Biostatistics and Epidemiology
Summer: 2(2-0)
R: Open only to graduate and graduate-professional students in the Colleges of Osteopathic Medicine, Human Medicine, and Nursing or approval of department.
Medical literature to illustrate statistical reasoning and research design. Emphasis on analysis rather than computation. Prospective or retrospective studies. Sensitivity, specificity, and predictive values. Epidemiologic terminology.
SA: CMS 512

590. Special Problems
Fall, Spring, Summer: 1 to 24 credits. A student may earn a maximum of 60 credits in all enrollments for this course.
R: Open only to graduate professional students in the College of Osteopathic Medicine. Approval of department. Each student works under faculty direction on an experimental, theoretical, or applied problem.

620. Directed Studies
Fall, Spring, Summer: 1 to 30 credits. A student may earn a maximum of 48 credits in all enrollments for this course.
R: Open only to graduate professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Individual or group work on special problems in medicine.

651. Obstetrics and Gynecology Clerkship
Fall, Spring, Summer: 1 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course.
R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Obstetric patient evaluation and management: motor skills, aptitudes, evaluation of postpartum patient and management of gynecologic problems.

653. Surgery Clerkship
Fall, Spring, Summer: 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Surgical diagnosis, management, and treatment. Structure developed to achieve proficiency in motor skills, aptitudes, comprehension of concepts and principles, patient evaluation, diagnosis, management, and therapy.

654. Anesthesiology Clerkship
Fall, Spring, Summer: 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Motor skills, concepts and principles, patient evaluation, management and therapy.

656. Orthopedic Clerkship
Fall, Spring, Summer: 1 to 20 credits. A student may earn a maximum of 20 credits in all enrollments for this course.
R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Training program designed to achieve proficiency in motor skills, aptitudes, comprehension of concepts and principles, patient evaluation, diagnosis, management, and therapy.

658. Otorhinolaryngology Clerkship
Fall, Spring, Summer: 1 to 20 credits. A student may earn a maximum of 20 credits in all enrollments for this course.
R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II.
Development of proficiency in motor skills, aptitudes, comprehension of concepts and principles, patient evaluation, diagnosis, management, and therapy.

Packaging — Descriptions of Courses

221. Packaging with Glass and Metal
Fall, Spring: 3(3-0)
P: PKG 101 or concurrently, CEM 141, PHY 231.
Physical and chemical properties of glass and metals and their applications to packaging.
SA: PKG 328, PKG 325

321. Packaging with Paper and Paperboard
Fall, Spring: 4(3-2)
P: PKG 101, CEM 145. PKG 221 or concurrently, SIT 200 or SIT 201 or SIT 315. R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
Physical and chemical properties, manufacture, conversion, and use of wood, paper, paperboard, and related components in packaging. Design, use, and evaluation of packages.
SA: PKG 326

322. Packaging with Plastics
Fall, Spring: 4(3-2)
P: PKG 101, CEM 145, PHY 232, MTH 124. PKG 221 or concurrently, SIT 200 or SIT 201 or SIT 315. R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
Physical and chemical properties of plastics and their relationship to selection, design, manufacture, performance, and evaluation of packages.
SA: PKG 320

330. Package Printing
Fall: 3(3-0)
P: PKG 221. R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
Methods of printing packages including copy preparation, design, electronic imaging, aesthetics, camera use, and effects of package materials. Production of printed packages including quality control, economics, and environmental considerations.

370. Packaging and the Environment
Spring: 3(3-0)
P: CEM 141, completion of Tier I writing requirement. R: Not open to freshmen and sophomores.
Effects of packaging on environmental quality. Solid waste, air and water quality, laws, economics and energy. Resource use and conservation.

410. Distribution Packaging Dynamics
Fall, Spring: 3(3-0)
P: PKG 231, PKG 233. R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
Identification and measurement of hazards in physical distribution. Methods of protection against climate, shock, vibration, and compression.
SA: PKG 310

415. Packaging Decision Systems
Fall, Spring: 3(2-2)
P: MTH 116, CFS 101 or CPS 131. R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.
Application of computers to analyze and solve problems in the management, specification, production, and testing of packaging systems.

452. Packaging Processes
Fall, Spring: 4(3-2)
P: PKG 322, PKG 323. R: Open only to sophomores or juniors or seniors or graduate students in the School of Packaging.

SA: PKG 210

101. Principles of Packaging
Fall, Spring: 3(3-0)
Packaging systems, materials and forms and their relationship to the needs and wants of society.
SA: PKG 210