

**OSTEOPATHIC
MEDICINE** **OST**

College of Osteopathic Medicine

401 Selected Topics in Osteopathic Medicine
Fall, Spring. 1(1-0) RB: Student with academic interest and career focus toward medicine and the health sciences.

Classical, current and innovative osteopathic medical trends in patient treatment and care.

511 Systems Biology: Neuromusculoskeletal I
Summer. 7(5-4) RB: Successful completion of semesters 1, 2 and 3 of the graduate-professional program in the College of Osteopathic Medicine. R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the peripheral neuromusculoskeletal system. Integration of basic science and clinical information.

512 Systems Biology: Neuromusculoskeletal II
Fall. 5(4-2) RB: Successful completion of semesters 1, 2, 3 and 4 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the neuromusculoskeletal system. Central nervous system and ophthalmology. Integration of basic science and clinical information.

519 Medical Ethics, Professionalism and Law
Spring. 2(2-0) RB: Successful completion of semesters 1, 2, 3, 4 and 5 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine or approval of department.

Introduction to the legal principles and ethical standards relevant to the practice of medicine. Legal theories include negligence, liability, and fraud. Professional responsibility, privacy, confidentiality, consent, end-of-life issues, and reproductive rights.

521 Systems Biology: Hematopoietic
Spring. 2(2-0) RB: Successful completion of semesters 1, 2, 3, 4 and 5 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the hematopoietic system. Hematopoiesis, clotting, and hematopoietic pathologies. Integration of clinical and basic science information.

522 Systems Biology: Gastrointestinal
Fall. 5(5-0) RB: Successful completion of semesters 1, 2, 3 and 4 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the gastrointestinal system. Normal structure and function, and pathologies. Integration of basic science and clinical information.

523 Systems Biology: Genitourinary
Spring. 3(3-0) RB: Successful completion of semesters 1, 2, 3, 4 and 5 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the urinary system. Normal structure and function and pathologies of the urinary and male reproductive systems. Integration of basic science and clinical information.

524 Systems Biology: Cardiovascular
Spring. 8(7-2) RB: Successful completion of semesters 1, 2, 3, 4 and 5 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the cardiovascular system. Normal structure and function and pathologies. Integration of basic science and clinical information.

525 Systems Biology: Respiratory
Spring. 6(4-4) RB: Successful completion of semesters 1, 2, 3, 4 and 5 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the respiratory system. Normal structure and function and pathologies. Integration of basic science and clinical information.

526 Systems Biology: Integumentary
Summer. 2(2-0) RB: Successful completion of semesters 1, 2, 3, 4, 5 and 6 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the integumentary system. Diagnosis and treatment of integumentary pathologies. Integration of basic science and clinical information.

527 Systems Biology: Female Reproductive
Fall. 4(4-0) RB: Successful completion of semesters 1, 2, 3 and 4 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to the female reproductive system. Normal structure and function, and pathologies. Integration of basic science and clinical information in obstetrics and gynecology.

528 Systems Biology: Growth and Development
Fall. 2(2-0) RB: Successful completion of semesters 1, 2, 3 and 4 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to growth and development. Normal structure and function, and pathologies.

529 Systems Biology: Endocrinology
Fall. 2(2-0) RB: Successful completion of semesters 1, 2, 3 and 4 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Multidisciplinary approach to endocrinology. Normal endocrine function and the principles of diagnosis and treatment of endocrine disorders. Integration of basic science and clinical information.

532 Growth and Development: Cases
Summer. 1(0-2) P: OST 528 RB: Successful completion of semesters 1, 2, 3, 4, 5 and 6 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Case studies in growth and development.

536 Behavioral System
Fall. 3 credits. RB: Successful completion of semesters 1, 2, 3 and 4 of graduate-professional program in the College of Osteopathic Medicine. R: Open to graduate-professional students in the College of Osteopathic Medicine.

Health promotion models, health behavior, stress and coping, and human sexuality. Psychopathology and geriatric issues.

538 Chronic Illness
Spring. 1(1-0) RB: Successful completion of semesters 1, 2, 3, 4 and 5 of the graduate-professional program in the College of Osteopathic Medicine R: Open to graduate-professional students in the College of Osteopathic Medicine.

Psychosocial aspects of chronic illness. Understanding and treating pain.

550 Introduction to Osteopathic Medicine
Summer. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 501 or OST 503 or OST 504.

An integration of the doctor patient relationship, clinical assessment skills and evidence based medicine to develop effective critical thinking and assessment skills in the care of patients. Introduction to osteopathic principles, palpatory skills, and concepts associated with confidentiality and patient/self care.

551 Osteopathic Patient Care I
Fall. 2(1-2) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 501 or OST 503 or OST 504.

Integration of components of the doctor patient relationship, clinical assessment skills and evidence based medicine to develop effective critical thinking and assessment skills in the care of patients. Emphasis is on communication in doctor patient relationships.

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- 552 Osteopathic Patient Care II**
Spring. 2(1-2) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 501 or OST 503 or OST 504.
Integration of components of the doctor patient relationship, clinical assessment skills and evidence based medicine to develop effective critical thinking and assessment skills in the care of patients, as it relates to neurology, orthopedics, psychiatry, endocrine, female reproduction and genitourinary systems.
- 553 Osteopathic Patient Care III**
Summer. 3(1-4) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 501 or OST 503 or OST 504.
Integration of components of the doctor patient relationship, clinical assessment skills and evidence based medicine to develop effective critical thinking and assessment skills in the care of patients, as it relates to the integumentary and gastrointestinal systems. The first clinical preceptor experience will occur.
- 554 Osteopathic Patient Care IV**
Fall. 3(1-4) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 501 or OST 503 or OST 504.
Integration of components of the doctor patient relationship, clinical assessment skills and evidence based medicine to develop effective critical thinking and assessment skills as it relates to psychopathology, hematopoietic and cardiovascular systems. The second clinical preceptor experience will occur.
- 555 Osteopathic Patient Care V**
Spring. 3(1-4) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 501 or OST 503 or OST 504.
Integration of components of the doctor patient relationship, clinical assessment skills in the care of patients, as it relates to the respiratory system. The third clinical preceptor will occur.
- 561 Basic Principles of Pathology**
Spring. 2 credits. Interdepartmental with Human Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in the colleges of Human and Osteopathic Medicine. SA: PTH 542
Fundamental pathologic processes. Clinical applications.
- 566 Care for the Young and the Aging Adult I**
Fall. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 528.
Focus on children birth to 18 years, and the elderly greater than 65. Normal growth, development, and aging.
- 567 Care for the Young and the Aging Adult II**
Spring. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 528.
Focus on children birth to 18 and elderly greater than 65. Normal structure, function and pathologies focusing on the nervous, endocrine, reproductive and genitourinary systems.
- 568 Care for the Young and the Aging Adult III**
Summer. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine.
Focus on children birth to 18 and elderly greater than 65. Normal structure, function and pathologies focusing on the integumentary and gastrointestinal systems.
- 569 Care for the Young and the Aging Adult IV**
Fall. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine.
Focus on children birth to 18 and elderly greater than 65. Normal structure, function and pathologies focusing on behavioral, cardiovascular and hematopoietic systems.
- 570 Care for the Young and the Aging Adult V**
Spring. 1(1-0) R: Open to graduate-professional students in the College of Osteopathic Medicine.
Focus on children birth to 18 and elderly greater than 65. Normal structure, function and pathologies focusing on the respiratory system.
- 571 Neuromusculoskeletal System**
Spring. 10(8-4) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in NOP 552 or OST 511 or OST 512.
Systems Neuromusculoskeletal Medicine from basic science through clinical neurology, orthopedics, rheumatology, psychiatry and ophthalmology. Neuroanatomy, orthopedic anatomy, integration with clinical neurology, orthopedics, psychiatry and ophthalmology.
- 572 Genitourinary System**
Spring. 3(3-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 523. C: OST 573 concurrently and OST 574 concurrently.
Normal urinary and male reproductive structure and function; principles of diagnosis and management of urinary and male reproductive disorders. Integration of basic science and clinical information related to the urinary and male reproductive systems.
- 573 Endocrine System**
Spring. 3(3-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 529. C: OST 572 concurrently and OST 574 concurrently.
Multidisciplinary approach to endocrinology. Normal endocrine structure and function; principles of diagnosis and management of endocrine disorders. Integration of basic science and clinical information.
- 574 Female Reproductive System**
Spring. 3(3-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 527. C: OST 572 concurrently and OST 573 concurrently.
Normal structure and function and pathologies related to the female reproductive system. Integration of basic science and clinical information in obstetrics and gynecology.
- 575 Gastrointestinal System**
Summer. 6(5-2) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 522.
Systems biology approach to the entire digestive track, including accessory organs of digestion. Normal structure and function and pathologies. Integration of basic science and clinical information.
- 576 Integumentary System**
Summer. 2(2-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 526.
Systems biology approach to the integumentary system, to include the skin and its epidermal derivatives. Normal structure and function and pathologies. Integration of basic science and clinical information.
- 577 Psychopathology**
Fall. 2(2-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 536.
Systems biology approach to the behavioral system. Normal structure and function and pathologies of the mind to include integration of basic science and clinical information.
- 578 Hematopoietic System**
Fall. 2(2-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 521.
Systems biology approach to the hematopoietic system including normal structure and function, hematopoiesis, clotting and hematopoietic pathologies. Integration of basic science and clinical information.
- 579 Cardiovascular System**
Fall. 9(8-2) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 524.
Systems biology approach to the cardiovascular system, including the heart and vasculature throughout the body. Normal structure and function and pathologies. Integration of basic science and clinical information.
- 580 Respiratory System**
Spring. 6(4-4) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 525.
Systems biology approach to the entire respiratory system, including the ear, nose, throat, sinuses, and related structures of the thorax. Includes certification in Basic and Advanced Cardiac Life Support.

- 581 Ethics, Professionalism and Law**
 Spring. 2(2-0) R: Open to graduate-professional students in the College of Osteopathic Medicine. Not open to students with credit in OST 519.
 Introduction to the legal principles and ethical standards relevant to the practice of medicine including a variety of applicable legal theories such as negligence, liability and fraud. Topics of professional responsibility, confidentiality, consent, end-of-life issues, and reproductive rights are also included.
- 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.
- 600 Spanish For Medical Terminology**
 Fall, Spring. 1(1-0) A student may earn a maximum of 2 credits in all enrollments for this course. RB: Some basic Spanish experience/conversation.
 Practicing patient interview skills in Spanish.
- 602 Primary Care Ambulatory Clerkship**
 Fall, Spring, Summer. 1 to 36 credits. A student may earn a maximum of 36 credits in all enrollments for this course. Interdepartmental with Family and Community Medicine and Internal Medicine and Osteopathic Surgical Specialties and Pediatrics and Psychiatry. Administered by Osteopathic Medicine.
 A 24-week ambulatory care continuity experience involving 12 weeks in a multidisciplinary environment (family medicine, pediatrics, and internal medicine), 4 weeks in family medicine and 8 weeks in specialty areas (internal medicine, surgery, pediatrics, and obstetrics and gynecology). Didactic sessions are scheduled concurrently.
- 609 Laboratory Medicine Clerkship**
 Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 16 credits in all enrollments for this course. Interdepartmental with Human Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. SA: PTH 609
 Laboratory procedures. Correlation of laboratory data with morphologic abnormalities in patients with pathophysiology.
- 610 Pathology Clerkship**
 Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. Interdepartmental with Human Medicine. Administered by Human Medicine. R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. SA: PTH 608
 Anatomic and clinical pathology with emphasis on clinical-pathological correlation. Conducted in pathology departments of affiliated hospitals.
- 801 Leadership and Organizational Dynamics/Human Resources Management in the Health Professions**
 Spring. 3 credits.
 Concepts and processes for human resources management (HRM) in the health professions giving attention to principles of leadership and its application in the processes of health care management.
- 802 Operations Analysis and Decision-Making in the Health Professions**
 Fall. 3 credits.
 Concepts of operations analysis, strategic and operational decision making in health care management and regulation, quality assurance and improvement, and quality outcomes research assessment.
- 803 Financial Management and Budgetary Considerations in the Health Professions**
 Spring. 3 credits.
 Concepts of budgeting and finance management in health care.
- 804 Public Health Policy and the Law in the Health Professions**
 Fall. 3 credits.
 Theory and processes of public health policy and its impact on health providers with consideration of the integral relationship between health providers in the public and private sectors, health policy agencies and legislative and ethical decision making processes.
- 820 Capstone Course for the Health Professions**
 Fall, Spring, Summer. 3 credits. P: ED 820 and EAD 861 and EAD 866 and EAD 877 and CEP 825 and OST 801 and OST 802 and OST 803 and (OST 804 or concurrently)
 Demonstration of the mastery of cognitive skills by application of appropriate information to a robust health-care management problem.
- 890 Independent Study**
 Fall, Spring, Summer. 3(3-0) RB: Enrolled in the Master of Arts in Health Professions Education R: Approval of college; application required.
 Supervised individual study in an area of osteopathic medicine.
- 894 Field Study**
 Fall, Spring, Summer. 3(3-0) RB: Enrolled in the Master of Arts in Health Professions Education R: Approval of college; application required.
 Supervised graduate practica and internships in Health Professions Education.