



**NOORDA COLLEGE**  
of OSTEOPATHIC MEDICINE

## COM Course Descriptions

Electives and non-HPSP are subject to approval by Academic Affairs

### *AFOM401e: Introduction to USAF Medicine (e) (2 weeks)*

Course Description: AFOM 101 is done through the Air Force at a base location. This is an application opportunity for Air Force HPSP students. This course has an emphasis built around the role of the medical provider in the [Air Force Medical Service \(AFMS\)](#) and the role of the AFMS in the USAF. The intent is to educate newly minted medical officers in the dynamic world they are now an integral part of and introduce them to a different thought process foreign to most of our training. The course focuses on the many capabilities of the USAF and how the medical missions within those areas differ. The students will be introduced to new concepts such as a broad overview of the [aeromedical evacuation](#) platform and capabilities, physiological aspect of continuous operations, concept of occupational and preventive medicine in light of force sustainment, and aviation fundamentals, to mention a few. The students will continue to spend a day at the local airport being introduced to aviation and experiencing small aircraft flight. This course will continue to serve as an introduction to medical students and be the first course in the pipeline for flight surgeon training.

Credits: 2            Grading: S/U

### *AFOM402e: Introduction to USAF Medicine (e) (2 weeks)*

Course Description: AFOM 102 is done through the Air Force at a base location. This is an application opportunity for Air Force HPSP students. The intent of this course is to provide the building block for a competent occupational primary care provider for the Air Force – someone who can actually function in a primary care clinic for active duty service members. To train flight surgeons all these years, we've had to be proficient on all skills that now fall under the [BOMC](#) umbrella. We've always taught special exams, [MEB/IDES](#), profiling, SHPE, and so on. These are skills that we have taught and have been expected to master in the field. AFOM 102 brings all of these non-aviation, Air Force occupational skills under one course. As we looked at what skills also made us competent occupational providers for the Air Force that weren't aviation-based, we found additional items. Many of the concepts in occupational medicine found in AMP 201 and the Occupational Medicine Symposium have been built in such as shop visits, special exams, fitness for duty determination, arming use of force, and [PRP](#). AFOM 102 includes blocks of instruction designed to teach a clinician how to prepare a patient to enter the aeromedical evacuation system. In other words, if a provider was to be at an [EMEDS](#), what could he or she do to better understand the process of AE and how could he or she prepare the patient medically so the handoff to the clearing flight surgeon is that much smoother for the patient and the AE team. Additionally, if a mass casualty were to occur on base such as a bus accident, it would be all hands on deck for response. AFOM 102 includes a block of instruction introducing disaster response, the Incident Command System, and concepts of working with the local EMS. The 2-day medical response to CBRN training previously found in AMP 301 has been incorporated here.

Credits: 2            Grading: S/U

### *ANAT201e: Advanced Anatomical Dissection (e)*

Course Description: This course will involve lab-oriented clinical anatomy dissection of one or more cadavers. Students will work in teams and present the clinical anatomy of the specific area. Specific areas of clinical anatomy may include abdomen, thorax, hand and forearm, head and neck and lower limbs, depending on the cadaver and the needs of the anatomy lab in preparation for prosected presentation for OMS-I students. Must have completed OMS-I, apply and be selected by professor to participate.

Credits: 2            Variable Credits: 2            Grading: %Percentage / Letter Grade

### *ANAT499e: Anatomy Research (e)*

Course Description: The goal of this course is to provide the student hands-on exposure to basic science or clinical research in the field of anatomy. The student will work with a mentor and will be actively involved in the development, execution, and evaluation of a research project.

Credits: 1            Variable Credits: 1 to 8            Grading: Pass/Fail - S/U

### *ANES401e: Anesthesiology (e)*

Course Description: The anesthesiology elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of anesthesiology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4            Variable Credits: 2 to 8            Grading: Pass/Fail - S/U

*ANES401s: Anesthesiology (s)*

Course Description: The anesthesiology sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of anesthesiology. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of anesthesiology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*ANES402e: Pain Management (e)*

Course Description: The pain management elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of pain management. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*ANES402s: Pain Management (s)*

Course Description: The pain management sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of pain management. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pain management. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*ANES499e: Anesthesiology Research (e)*

Course Description: The anesthesiology research elective rotation experience is designed to provide the student with a basic understanding of anesthesiology. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of anesthesiology. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*BCHE499e: Biochemistry Research (e)*

Course Description: The goal of this course is to provide the student hands-on exposure to basic science or clinical research in the field of biochemistry. The student will work with a mentor and will be actively involved in the development, execution, and evaluation of a research project.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*CAP401: Capstone*

Course Description: This is a required 2 weeks on campus course culminating in the required graduation ceremony. In the Capstone Course students complete an OSCE and OPP session and exam and be able to synthesize the information to come up with a differential diagnosis and treatment plan. update certifications, and a transition to residency module. A second week will cover Financial Aid counseling, Alumni resources and relations, honors and awards, and grad fair. Credits: 1      Grading: Pass/Fail

*CEPA101: Core Entrustable Professional Activities I*

Course Description: CEPA 101 is the first semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, appropriately communicate with patients, and integrate the use of osteopathic principles and practices into patient care to prepare students to work in the community. The primary areas of focus in the course are inter/ professional communication; history and physical examination skills and electronic medical record documentation; principles of patient safety; osteopathic manipulative medicine diagnostic skills; and integrating the social determinants of health. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings. . [COM2025 only]

Credits: 7      Grading: %Percentage / Letter Grade

*CEPA101.1: Core Entrustable Professional Activities I*

Course Description: CEPA 101 is the first semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, medical documentation and appropriately communicate with patients, and integrate the use of osteopathic

principles and practices into patient care to prepare students to work in the community. The primary areas of focus in the course are inter/professional communication; history and physical examination skills and electronic medical record documentation; principles of patient safety; osteopathic manipulative medicine diagnostic skills; and integrating the social determinants of health. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings. Students will begin a research project that will span the course of the curriculum culminate during the fourth-year Capstone Course. [COM2026 and forward]

Credits: 10.5      Grading: %Percentage / Letter Grade

#### *CEPA101.2: Core Entrustable Professional Activities I*

Course Description: CEPA 101 is the first semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, appropriately communicate with patients, document a patient encounter, and integrate the use of osteopathic principles and practices into patient care, all to prepare students to work in the community. The primary areas of focus in the course are basics of medical terminology introductory anatomy; history and physical examination skills and electronic medical record documentation; principles of communication in the patient encounter; and osteopathic manipulative medicine diagnostic and treatment skills. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings. [COM2026 and forward]

Credits: 8.5      Grading: %Percentage / Letter Grade

#### *CEPA102: Core Entrustable Professional Activities II*

Course Description: CEPA 102 is the second semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, appropriately communicate with patients, and integrate the use of osteopathic principles and practices into patient care. Instruction in medical documentation will also be included to prepare students to work in the community and function as a second-year student. The primary areas of focus in the course are inter/professional communication and physical examination skills and electronic medical record documentation; principles of patient safety; osteopathic manipulative medicine diagnostic skills; and integrating the social determinants of health. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings. At the conclusion of the course student's communication/interviewing skills, physical exam skills and integrated osteopathic clinical skills will be assessed through Objective Structured Clinical Exams (OSCE).

Credits: 11      Grading: %Percentage / Letter Grade

#### *CEPA102.1: Core Entrustable Professional Activities II*

Course Description: CEPA 102 is the second semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, appropriately communicate with patients, document a patient encounter, and integrate the use of osteopathic principles and practices into patient care, all to prepare students to work in the community. The primary areas of focus in the course are interpersonal communication and physical examination skills; electronic medical record documentation; principles of patient safety and health systems science; osteopathic manipulative medicine diagnostic and treatment skills; and integrating the social determinants of health. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings. At the conclusion of the course student's communication/interviewing skills, physical exam skills, and integrated osteopathic clinical skills will be assessed through Objective Structured Clinical Exams (OSCE).

Credits: 9      Grading: %Percentage / Letter Grade

#### *CEPA201: Core Entrustable Professional Activities III*

Course Description: CEPA 201 is the third semester of a four-year longitudinal course. It is designed to teach students more of the history and physical exam as related to systems covered within the simultaneous sections, begin the process of learning how to apply medical research studies to the patient encounter, continue to learn how to appropriately communicate with patients by beginning to integrate the physical examination skills and understand social determinants of health, and incorporate the use of osteopathic principles and practices into patient care. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings.

Credits: 5      Grading: %Percentage / Letter Grade

#### *CEPA201.1: Core Entrustable Professional Activities III*

Course Description: CEPA 201 is the third semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, appropriately communicate with patients, document a patient encounter, and integrate the use of osteopathic principles and practices into patient care, all to prepare students to work in the community. The primary areas of focus in the course are developing intermediate osteopathic manipulative medicine diagnostic and treatment skills; incorporating osteopathic medicine principles into a treatment plan; intermediate history and physical exam skills as related to systems covered within the simultaneous sections; and applying medical research studies to the patient encounter. Regular OSCEs will allow for practice in integrating the principles learned into effective patient care interactions. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings.

Credits: 3      Grading: %Percentage / Letter Grade

*CEPA202: Core Entrustable Professional Activities IV*

Course Description: CEPA 202 is the fourth semester of a four-year longitudinal course. It is designed to teach students more of the history and physical exam as related to systems covered within the simultaneous sections, more of the history and physical exam as related to systems covered within the simultaneous sections, begin the process of learning how to apply medical research studies and continuous quality improvement to the patient encounter, continue to learn appropriate communication with patients by beginning to integrate the physical examination skills, understand social determinants of health, and incorporate the use of osteopathic principles and practices into patient care. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings.

Credits: 5      Grading: %Percentage / Letter Grade

*CEPA202.1: Core Entrustable Professional Activities IV*

Course Description: CEPA 202 is the fourth semester of a four-year longitudinal course. It is designed to teach students how to perform a history and physical exam, appropriately communicate with patients, document a patient encounter, and integrate the use of osteopathic principles and practices into patient care, all to prepare students to work in the community. The primary areas of focus in the course are developing intermediate osteopathic manipulative medicine diagnostic and treatment skills; incorporating osteopathic medicine principles into a treatment plan; intermediate history and physical exam skills as related to systems covered within the simultaneous sections; understanding the effect of social factors on health; and applying medical research studies to the patient encounter. Regular OSCEs will allow for practice in integrating the principles learned into effective patient care interactions. The varied learning opportunities provide foundational cognitive and psychomotor skills to prepare the student to progress into further CEPA curricular offerings.

Credits: 3      Grading: %Percentage / Letter Grade

*CEPA301: Core Entrustable Professional Activities V*

Course Description: CEPA 301 is the third year of a four-year longitudinal course. Students will continue professionalism education with communication, IPE, DEI, ethics, and health systems science modules. In addition, the principles of biostats and research will continue with case studies.

Credits: 1      Grading: Satisfactory/Unsatisfactory

*CEPA302: Core Entrustable Professional Activities VI*

Course Description: CEPA 302 is the third year of a four-year longitudinal course. Students will continue professionalism education with communication, IPE, DEI, ethics, and health systems science modules. In addition, the principles of biostats and research will continue with case studies.

Credits: 1      Grading: Satisfactory/Unsatisfactory

*CEPA401: Core Entrustable Professional Activities VII*

Course Description: CEPA 401 is the fourth and final year of this longitudinal course. Students will continue professionalism education with communication, IPE, DEI, ethics, and health systems science modules. In addition, the principles of biostats and research will continue with case studies.

Credits: 1      Grading: Satisfactory/Unsatisfactory

*CEPA402: Core Entrustable Professional Activities VIII*

Course Description: CEPA 402 is the fourth and final year of this longitudinal course. Students will continue professionalism education with communication, IPE, DEI, ethics, and health systems science modules. In addition, the principles of biostats and research will continue with case studies.

Credits: 1      Grading: Satisfactory/Unsatisfactory

*CLMD401e: Healthcare Improvement (e)*

Course Description: The healthcare improvement elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of healthcare improvement. These experiences may include working with clinical programs and continuous quality improvement.

Credits: 4      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*CLMD402e: Healthcare Management and Public Health Policy (e)*

Course Description: The healthcare management and public health policy elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of healthcare management and public health policy.

These experiences may include working with medical directors, state and local epidemiologists, health departments, and gaining an understanding of population health.

Credits: 4      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*CLMD403e: Integrated Medicine (e)*

Course Description: The integrated medicine elective rotation will allow the student to have an educational experience with multiple health providers within the community to enhance understanding of networks of ancillary care. During this elective, students will be exposed to health fields including, but not limited to: wellness coaching, acupuncture, exercise science, nutrition, and spiritual care.

Credits: 4      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*CLMD404e: Medical Informatics (e)*

Course Description: The Medical informatics elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Medical informatics. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*EMED401: Emergency Medicine*

Course Description: This fourth year required clerkship is designed to provide students with clinical exposure, observation and training to further their understanding of emergency medicine. Students focus on the care, treatment and diagnosis of a variety of acute and sub-acute problems in the adult emergency medicine patient. Highlights how to stabilize and correctly triage critically ill patients to prepare for more advanced study of the discipline.

Credits: 6      Grading: Pass/Fail - H/HP/P/F

*EMED401e: Emergency Medicine (e)*

Course Description: The emergency medicine elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of emergency medicine. These experiences take place in a hospital setting.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*EMED401s: Emergency Medicine (s)*

Course Description: The emergency medicine sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of emergency medicine. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of emergency medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail S/U

*EMED202e: Wilderness Medicine (e)*

Course Description: This course will be an elective in which you can earn the Advanced Wilderness Life Support (AWLS) certificate. Session topics include wilderness patient assessment, hypothermia and hyperthermia, wilderness wound management, water treatment, HAPE, AMS, HACE, and other injuries and illnesses unique to the back country.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*EMED499e: Emergency Medicine Research (e)*

Course Description: The emergency medicine research elective rotation experience is designed to provide the student with a basic understanding of emergency medicine. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of emergency medicine. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 12      Grading: Pass/Fail - S/U

*FMED101e: Basic Disaster Life Support (e)*

Course Description: This course is designed to provide students with introductory training for disasters requiring medical preparedness. This training complies with national guidelines to standardize emergency response training nationally and to strengthen the nation's public health system. This course is a prerequisite to the Advanced Disaster Life Support elective. Credits: 0.5      Variable Credits: 0.5 to 1

Grading: Pass/Fail - S/U

*FMED201e: Sports Medicine (e)*

Course Description: This course is designed to educate medical students in the care and management of athletic teams as a part of their future practices. At the conclusion of this course, students will recognize the role of the team physician, understand common equipment utilized by the physician to care for the athlete, recognize common medical emergencies in athletics, perform on-field evaluation and sideline management of common athletic injuries, and gain appreciation for the broad spectrum of care to athletes of varying backgrounds and abilities. This course is a prerequisite to the Advanced Sports Medicine elective.

Credits: 0.5      Variable Credits: 0.5 to 1      Grading: Pass/Fail - S/U

*FMED202e: Advanced Disaster Life Support (e)*

Course Description: This course is designed to provide students with advanced training for disasters requiring medical preparedness. This training complies with national guidelines to standardize emergency response training and to strengthen the nation's public health system. This course allows students to demonstrate competencies in casualty decontamination, specified essential skills and mass-casualty incident information systems/technology applications. Must complete Basic Disaster Life Support as a prerequisite to this course.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*FMED203e: Advanced Sports Medicine (e)*

Course Description: This course will introduce medical students to advanced concepts and practices of sports medicine. Must complete Sports Medicine as a prerequisite to this course.

Credits: 0.5      Variable Credits: 0.5 to 1      Grading: Pass/Fail - S/U

*FMED204e: Advanced Case Presentations in Clinical Medicine (e)*

Course Description: This course focuses on synthesizing information taught during the first and second years of the COM curriculum, with an emphasis on clinical medicine. The top 10 diagnoses seen in primary care, as well as the top five (5) inpatient admitting diagnoses will be covered, and students will practice obtaining medical history, documenting and utilizing evidence-based, cost-effective diagnostic strategies in order to arrive at a treatment plan. Grade is based on Presentations to instructor.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*FMED301: Family Medicine*

Course Description: Family Medicine is a required clerkship provides students with clinical exposure, observation and training to further their understanding of family medicine. Themes are addressed during family medicine clerkships: 1) prevention and wellness, and 2) communities and populations 3) acute and chronic illness. Students focus on ambulatory management of common acute and chronic medical problems within a primary care setting.

Credits: 6      Grading: Pass/Fail - H/HP/P/F

*FMED301e: International Medicine and Public Health (e)*

Course Description: This eight-week virtual elective allows a student to study medicine or health care systems globally through the Institute for International Medicine (INMED). This course includes 8 weeks of structured learning and assignments due each Sunday night. Each week includes a *required* virtual class with the faculty for discussions, simulations, case studies and final exams. This weekly *required* virtual class may last up to 120 minutes. This course is not repeatable for credit.

Credits: 1 . 5      Grading: Pass/Fail - S/U

*FMED302e: International Community Medicine (e)*

Course Description: This elective course is designed to allow students to participate in the INMED Service Learning Experience to complete requirements for the global track. Learners serve a minimum of four weeks\* at an [INMED International Medicine Training Site](#) or an approved equivalent training site where they are supervised by experienced INMED faculty. Responsibilities vary from site to site, and may include inpatient care, outpatient clinic, procedures, obstetrics, night duty, and participation in research, public health, and primary care activities- Approval by the Assistant Dean for Clinical Education must be gained no later than 4 months in advance of the first date of the travel. This elective may not be taken at any point during the month of March of the fourth year. This course is repeatable for up to 8 credit hours.

Variable Credits: 4 to 8      Grading: Pass/Fail - S/U      Pre-Requisite FMED301e

*FMED401e: Community Medicine (e)*

Course Description: Clinical elective with time and study spent with healthcare partners serving underserved populations [e.g. the Community Health Center (CHC – Mountainlands) and the Public Health Center]. Community Medicine focuses on the science and art of promoting health in these populations. Primary prevention of disease and prolonging life through a range of interventions and the use of

resources available within the community [e.g.Public Health, Home Health, Home PT/rehabilitative, Hospice/palliative care].

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED402e: Family Medicine (e)*

Course Description: The family medicine elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of family medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED402s: Family Medicine (s)*

Course Description: The family medicine sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of family medicine. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of family medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED403e: Geriatrics (e)*

Course Description: The geriatrics elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of geriatrics. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED403s: Geriatrics (s)*

Course Description: The geriatrics sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of geriatrics. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of geriatrics. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED404e: Hyperbaric and Undersea Medicine and Wound Care (e)*

Course Description: The hyperbaric medicine/wound care elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hyperbaric medicine/wound care. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED404s: Hyperbaric and Undersea Medicine / Wound Care (s)*

Course Description: The hyperbaric medicine/wound care sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hyperbaric medicine/wound care. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of hyperbaric medicine/wound care. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED405e: Travel Medicine (e)*

Course Description: The travel medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of travel medicine. These experiences may take place in a clinical office, health department or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered. May focus on immunizations and prophylactic treatments to prepare for travel as well as common diseases and treatments encountered during international travel. This is not an international travel opportunity.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED406e: Physical Medicine and Rehabilitation (e)*

Course Description: The physical medicine and rehabilitation elective rotation is designed to provide students with clinical exposure,

observation, and training to further their understanding within the field of physical medicine and rehabilitation. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED406s: Physical Medicine and Rehabilitation (s)*

Course Description: The physical medicine and rehabilitation sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of physical medicine and rehabilitation. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of physical medicine and rehabilitation. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED408e: Rural/Underserved Primary Care (e)*

Course Description: The Rural/underserved primary care II is an elective rotation designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Rural/underserved primary care II. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of Rural/underserved primary care II. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED408s: Rural/Underserved Primary Care (s)*

Course Description: The Rural/underserved primary care II is a sub-internship designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Rural/underserved primary care II. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED409e: Sport Medicine (e)*

Course Description: The sports medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of sports medicine. These experiences take place in a clinical office or athletic setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED409s: Sports Medicine (s)*

Course Description: The sports medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of sports medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of sports medicine. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED410e: International Community Medicine (e)*

Course Description: This elective consists of online didactic modules regarding travel safety, prevalence of disease/illness in the location of planned travel set up through a partner organization in preparation for an international medicine trip. The remaining time will be spent on site providing supervised medical care. Application including supervising physician and learning objectives must be submitted to clinical coordinators. Approval by the Assistant Dean for Clinical Education must be gained no later than 4 months in advance of the first date of the elective. This elective may not be taken at any point during the month of March. Credit will be determined by length of time on the rotation. \*\*This course is not a part of the Global Track.  
Credits: 2      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*FMED499e: Family Medicine Research (e)*

Course Description: The family medicine research elective rotation experience is designed to provide the student with a basic understanding of family medicine. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of family medicine. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.  
Credits: 1      Variable Credits: 1 to 16      Grading: Pass/Fail - S/U

*GENE499e: Medical Genetics Research*

Course Description: The goal of this course is to provide the student hands-on exposure to basic science or clinical research in the field of medical genetics. The student will work with a mentor and will be actively involved in the development, execution, and evaluation of a research project.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*IDIS101e: Ethics for Physicians (e)*

Course Description: This course provides an opportunity to explore the ethical dimensions of medicine at an advanced level, focusing on professional ethics for physicians as well as clinical bioethics topics, such as informed consent and end-of-life care.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*IDIS102e: Bioethics in Action: The OSCE Experience (e)*

Course Description: Physicians face challenging ethical situations every day. This elective will provide students with practical experience in communicating about difficult issues in complex scenarios, including bioethics OSCE experiences that will explore psychosocial and emotional issues that surround end of life experiences, domestic violence and other difficult situations.

Credits: 1      Grading: Pass/Fail - S/U

*IDIS103e: Introduction to Research (e)*

Course Description: The purpose of this course is to provide an overview of research design and its application to research questions. This overview consists of understanding the preliminary considerations that go into selecting a quantitative, qualitative or mixed methods research design. These include knowing the definition for these different approaches, considering philosophical world views, reviewing the literature, understanding the use of theory, anticipating ethical issues and developing writing strategies. The course will include the process of research as it relates to each approach. This process includes writing an introduction, specifying a purpose statement, and developing research questions and/or hypotheses. This course will also discuss the methods and procedures for quantitative, qualitative, and mixed methods studies.

Credits: 2      Grading: Pass/Fail - S/U

*IDIS104e: Introduction to Statistics and Quantitative Analysis (e)*

Course Description: The purpose of this course is to provide an introduction to statistics used in research. The course will provide students with a foundation of practical skills in statistics focusing on data collection, management and analysis. More specifically, the course will cover descriptive statistics, inferential statistics, hypothesis testing, correlation techniques, statistics used in epidemiology and statistics used in decision making. This course includes laboratory time that is dedicated to the effective use of PASW (formerly SPSS). Students will be expected to analyze data in the lab and accurately interpret output.

Credits: 2      Grading: Pass/Fail - S/U

*IDIS105e: Spanish for Medical Professionals (e)*

Course Description: This course is designed for those with little to no previous experience with the Spanish language and for those who wish to improve their medical Spanish skills. It is based on the concept of using simple conversations to facilitate a health care interaction and using repetition to learn a new language. Previous knowledge in Spanish is helpful, but not essential.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*IDIS106e: Health Policy (e)*

Course Description: Introduces material related to the foundations of health policy to include policy analysis and formulation. Focuses on substantive areas that form the analytic basis for many of the issues within Health Policy. The areas include Federal and state health policy, uninsured populations, health care workforce, vulnerable populations, quality of care and patient safety, economics of health policy, rural health, multicultural medicine, medical education and health care reform.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*IDIS107e: Biomolecular Aspects of Clinical Medicine Journal Club (e)*

Course Description: This course consists of nine sessions for students who are interested in discussing recent journal articles linking clinical cases with relevant and interesting biomolecular science research studies. May be repeated up to four total times.

Credits: 1      Variable Credits: 1 to 4      Grading: Pass/Fail - S/U

*IDIS201e: Spanish for Medical Professionals II (e)*

Course Description: This is an advanced course for students who have completed IDIS 105e or who have equivalent training and

experience with medical Spanish.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*IDIS202e: International / Travel Health (e)*

Course Description: This broad-based course is designed to provide a review and understanding of common types of medical and community health issues likely to be encountered in developing countries around the globe. Immunizations and preventative health are emphasized.

Credits: 0.5      Variable Credits: 0.5 to 1      Grading: Pass/Fail - S/U

*IDIS203e: Medicine and Law (e)*

Course Description: This course provides the basic doctrines and principles of the law to serve as a foundation for legally sound medical practice. The contents include a comprehensive coverage of the dynamics of the law, its application to health-care professional issues, and recent developments related to health-care delivery. Literature related to all aspects of life with special reference to health and health-care is included throughout the course. Literary narrative writings are discussed to demonstrate the relation to the practice of medicine.

Credits: 1.5      Grading: Pass/Fail - S/U

*IDIS204e: Leadership in Health Promotion (e)*

Course Description: The purpose of this elective is for students to demonstrate skills in leadership, organization, and self-direction. May be repeated for credit up to three times total.

Credits: 0.5      Variable Credits: 0.5 to 1      Grading: Pass/Fail - S/U

*IDIS205e: Cultural Competency (e)*  
Course Description: This elective course examines the culture of medical professionals and preconceived notions about cultures, races and other groups. The content will identify features that make cultures unique while exploring the commonalities among cultures. The course will teach students new skills to appreciate all cultures.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*IDIS206e: Basic Life Support Instructor Training (e)*

Course Description: This elective course provides the training necessary for students to become qualified Basic Life Support instructors. The instructive phase involves didactic and hands-on training. Participants provide BLS instruction to other students to fulfill the course requirement.

Credits: 1      Grading: Pass/Fail - S/U

*IDIS207e: Medical Research (e)*

Course Description: This elective is intended to provide a framework within which medical students may engage in biomedical science research projects or a variety of activities related to such research at Noorda-COM or other approved institution(s) and receive academic acknowledgment. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Time commitment will vary based on the scope of the project undertaken. May be repeated for a maximum of 6 credits.

Credits: 1      Variable Credits: 1 to 6      Grading: Pass/Fail - S/U

*IDIS208e: Clinical Research (e)*

Course Description: This elective is intended to provide a framework within which medical students may engage in biomedical science research projects or a variety of activities related to such research at Noorda-COM or other approved institution(s) and receive academic acknowledgment. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Time commitment will vary based on the scope of the project undertaken. May be repeated for a maximum of 8 credits.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*IDIS209e: Medical Education Research (e)*

Course Description: This elective is intended to provide a framework within which medical students may engage in medical education research projects or a variety of activities related to such research at Noorda-COM or other approved institution(s) and receive academic acknowledgment. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Time commitment will vary based on the scope of the project undertaken. May be repeated for a maximum of 6 credits.

Credits: 1      Variable Credits: 1 to 6      Grading: Pass/Fail - S/U

*IDIS300: Core Rotation Preparation*

Course Description: This is a mandatory course for students who have not received sign off from Academic Affairs to sit for COMLEX-USA Level I or Clinical Affairs to start rotations. Students focus on the study of Osteopathic generalist physicians to practice medicine without supervision. Course includes consultation with Academic Affairs to review course objective and help construct an individualized study plan including use of reading materials, questions, videos and/or audio materials.

Credits: 0                      Grading: S/U

*IDIS301: COMLEX Level 1 Preparation*

Course Description: This is a mandatory course for students who are unsuccessful in passing COMLEX Level I. Students focus on the study of osteopathic medical knowledge and clinical skills considered essential for osteopathic generalist physicians to practice medicine without supervision. Course includes consultation with the Director of Academic Success to review course objectives and help construct an individualized study plan including use of reading materials, questions, videos and/or audio materials. May be repeated for credit up to a maximum of 18 credits.

Credits: 1                      Variable Credits: 1 to 18      Grading: Pass/Fail - S/U

*IDIS301e: Spanish for Medical Professionals (e)*

Course Description: This is an advanced course in medical Spanish intended for those with a Spanish language background who are actively using their past/current Spanish skills. Students will work in a Spanish-speaking community site with a preceptor for this course.

Credits: 1                      Variable Credits: 1 to 2                      Grading: Pass/Fail - S/U

*IDIS303: Osteopathic Clinical Skills*

Course Description: This is a clerkship for students who are unsuccessful in passing a third year clinical clerkship. Students focus on the functional knowledge and application of the multiple facets of osteopathic clinical skills necessary to perform a competent diagnostic evaluation and subsequent treatment of patients. May be repeated for credit up to a maximum of 10 credits.

Variable Credits: 1 to 10      Grading: Pass/Fail - S/U

*IDIS400e: Clinical Independent Study (e)*

Course Description: Students focus on the study of osteopathic medical knowledge and clinical skills considered essential for osteopathic generalist physicians to practice medicine without supervision. Course includes consultation with the Director of Academic Success to review course objectives and help construct an individualized study plan including use of reading materials, questions, videos and/or audio materials. May be repeated for credit up to a maximum of 18 credits.

Credits: 1                      Grading: Pass/Fail - S/U

*IDIS401: COMLEX Level 2-CE Preparation*

Course Description: Students focus on the study of osteopathic medical knowledge and clinical skills considered essential for osteopathic generalist physicians to practice medicine without supervision. Course includes consultation with the Director of Academic Success to review course objectives and help construct an individualized study plan including use of reading materials, questions, videos and/or audio materials. May be repeated for credit up to a maximum of 18 credits.

Credits: 1                      Variable Credits: 1 to 18      Grading: Pass/Fail - S/U

*IDIS402: COMLEX Level 2-PE Preparation*

Course Description: This is a mandatory course for students who are unsuccessful in passing COMLEX Level 2-PE. Students are required to return to campus to receive one-on-one instruction from a clinical faculty member as approved by the Dean of the College of Osteopathic Medicine. Course includes consultation with the Director of Academic Success to review course objectives and help construct an individualized study plan including use of reading materials, questions, videos and/or audio materials. This course is graded S/U based on passing of the COMLEX Level 2-PE exam and meets no clinical graduation requirement. May be repeated for credit up to a maximum of 18 credits.

Credits: 1                      Variable Credits: 1 to 18      Grading: Pass/Fail - S/U

*IDIS403: Osteopathic Clinical Skills*

Course Description: This is a clerkship for students who are unsuccessful in passing a clinical clerkship. Students focus on the functional knowledge and application of the multiple facets of osteopathic clinical skills necessary to perform a competent diagnostic evaluation and subsequent treatment of patients. May be repeated for credit up to a maximum of 10 credits.

Credits: 5                      Variable Credits: 5 to 10      Grading: Pass/Fail - S/U

*IDIS404e: Bioethics (e)*

Course Description: This course is a progressive exploration of bioethics from foundational concepts and theory to defining issues in the field. In this course, students will first be given the tools with which they can analyze ethical arguments. Students will then be introduced to the substantial and philosophically rigorous debates in the field and try their hand at participating in these debates. Students will read primary texts and debate real and hypothetical cases. Additionally, the student will be challenged to provide adequate reasons for holding particular positions in a debate.

Credits: 2      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*IDIS 405e: Leadership in Health Promotion*

Course Description: The purpose of this elective is for students to demonstrate skills in leadership, organization, and self-direction. May be repeated for credit up to three times total.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 406e: Clinical Trial Research*

Course Description: This elective is intended to provide a framework for medical students to get exposure to clinical trial research, regulations and patient education. These experiences take place in a clinical, hospital, or telemedicine environment.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 407e: Transition to Residency*

Course Description: This course is intended to help with the transition from medical student to resident. We will explore resident contracts/obligations, the role of resident, increase didactic and clinical skills, and prepare students for the next step in their medical career. This is only offered in April.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 408e: Social Determinants of Health and Caring for the Underserved*

Course Description: Students will participate in care of those in housing crisis, mobile healthcare, and working with various interprofessional healthcare providers to coordinate care plans.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 409e: Telemedicine*

Course Description: This course aims to provide a foundational understanding of the current practice of telemedicine and telemedical devices across multiple sub-specialties. It will give instruction on the practical application of how to complete a telemedicine consultation in the outpatient, emergent care, and in-patient settings. They will also receive instructional lectures on how to effectively complete a telemedicine visit.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 410e: Health Law & Advocacy*

Course Description: This course is an introduction to health law and/or advocacy for medical students. We will cover a diverse set of legal topics such as informed consent, medical malpractice, the Affordable Care Act, Medicare, duty to treat, FDA regulations, and reproductive constitutional rights.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 411e: Culinary Medicine and Nutrition*

Course Description: This course addresses the role that food plays in treating chronic diseases. Students will learn how to translate evidence-based nutrition information into meals and actionable advice about what and how to eat. Culinary skills combined with evidence-based practice recommendations and interprofessional collaboration provide students the tools needed to complete medical case studies and counsel patients regarding nutrition-related health concerns.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 412e: Allied Health*

Course Description: This course will allow students to learn from Allied Health Providers in the community and learn their role in the medical care team.

Variable Credits: 2 to 4      Grading: S/U

*IDIS 413e: Clinical Pharmacotherapy*

Course Description: Application of Pharmacotherapy in the clinical setting.

Variable Credits: 2 to 4      Grading: S/U

*IMED301: Internal Medicine*

Course Description: This required clerkship provides students with clinical exposure, observation and training to better understand principles and practices of general internal medicine. Students focus on inpatient and outpatient management of adults to prepare for more advanced study of the discipline.

Credits: 6      Grading: Pass/Fail - H/HP/P/F

*IMED401e: Allergy/Immunology (e)*

Course Description: The allergy/immunology elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of allergy/immunology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED401s: Allergy/Immunology (s)*

Course Description: The allergy/immunology sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of allergy/immunology. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of allergy/immunology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED402e: Addiction Medicine (e)*

Course Description: The addiction medicine elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of addiction medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED402s: Addiction Medicine (s)*

Course Description: The addiction medicine sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of addiction medicine. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of addiction medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED403e: Cardiology (e)*

Course Description: The cardiology elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of cardiology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED403s: Cardiology (s)*

Course Description: The cardiology sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of cardiology. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of cardiology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED404e: Critical Care Medicine (e)*

Course Description: The critical care medicine elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of critical care medicine. These experiences take place in a clinical office or hospital

setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED404s: Critical Care Medicine (s)*

Course Description: The critical care medicine sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of critical care medicine. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of Critical care medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED405e: Dermatology (e)*

Course Description: The dermatology elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of dermatology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED405s: Dermatology (s)*

Course Description: The dermatology sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of dermatology. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of Dermatology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED406e: Electrocardiogram Interpretations (e)*

Course Description: The electrocardiogram interpretation elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding of EKGs and become more proficient in their abilities to read them. These experiences take place in a clinical office or hospital setting.

Credits: 4      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*IMED407e: Endocrine/Metabolism (e)*

Course Description: The endocrinology/metabolism elective rotation is designed to provide students with clinical exposure, observation and training to further their understanding within the field of endocrinology/metabolism. These experiences take place in a clinical office or hospital setting, presenting unique opportunities with regard to the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED407s: Endocrine/Metabolism (s)*

Course Description: The endocrinology/metabolism sub-internship is designed to provide students with clinical exposure, observation and training to further their understanding within the field of endocrinology/metabolism. This Sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of Endocrinology/metabolism. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED408e: Gastroenterology (e)*

Course Description: The gastroenterology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of gastroenterology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED408s: Gastroenterology (s)*

Course Description: The gastroenterology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of gastroenterology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct

supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of gastroenterology. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED409e: General Internal Medicine - Outpatient (e)*

Course Description: The general internal medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general internal medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED409s: General Internal Medicine - Outpatient (s)*

Course Description: The general internal medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general internal medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of general internal medicine. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED411e: Hematology/Oncology (e)*

Course Description: The hematology/oncology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hematology/oncology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED411s: Hematology/Oncology (s)*

Course Description: The hematology/oncology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hematology/oncology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of hematology/oncology. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED412e: Hospice/Palliative Care (e)*

Course Description: The hospice/palliative elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hospice/palliative. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED412s: Hospice/Palliative Care (s)*

Course Description: The hospice/palliative sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hospice/palliative. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of hospice/palliative. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED413e: Infectious Disease (e)*

Course Description: The infectious disease elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of infectious disease. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED413s: Infectious Disease (s)*

Course Description: The infectious disease sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of infectious disease. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct

supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of infectious diseases. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED414e: Internal Medicine - Inpatient (e)*

Course Description: The inpatient internal medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of inpatient internal medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Grading: Pass/Fail - S/U

*IMED414s: Internal Medicine - Inpatient (s)*

Course Description: The inpatient internal medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of inpatient internal medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of inpatient internal medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Grading: Pass/Fail - S/U

*IMED415e: Medical Genetics (e)*

Course Description: The medical genetics elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of medical genetics. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED415s: Medical Genetics (s)*

Course Description: The medical genetics sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of medical genetics. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of medical genetics. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED416e: Nephrology (e)*

Course Description: The nephrology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of nephrology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED416s: Nephrology (s)*

Course Description: The nephrology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of nephrology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of nephrology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - H/HP/P/F

*IMED417e: Neurology (e)*

Course Description: The neurology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of neurology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED417s: Neurology (s)*

Course Description: The neurology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of neurology. This sub-internship is restricted to fourth-year students and is designed to

provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of neurology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED418e: Pulmonary Medicine (e)*

Course Description: The pulmonary medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pulmonary medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED418s: Pulmonary Medicine (s)*

Course Description: The pulmonary medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pulmonary medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pulmonary medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED419e: Rheumatology (e)*

Course Description: The rheumatology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of rheumatology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED419s: Rheumatology (s)*

Course Description: The rheumatology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of rheumatology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of rheumatology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*IMED420e: Sleep Medicine (e)*

Course Description: The sleep medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of sleep medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Variable Credits: 2 to 8      Grading: S/U

*IMED421e: Cardiac Electrophysiology (e)*

Course Description: Students will evaluate patients who require electrophysiology consultation, participate in pacemaker and defibrillator interrogations, drug loading, elective cardioversions, and EP lab procedures. Students will gain experience with state-of-the-art management of arrhythmias and increase their knowledge in interpretations of ECG's.

Variable Credits: 2 to 4      Grading: S/U

*IMED422e: Advanced ECG (e)*

Course Description: Students will advance their knowledge with ECG administration, reading, and interpretation. This is a mixed clinical and non-clinical course.

Variable Credits: 2 to 4      Grading: S/U

*IMED423e: Breast Health & Oncology (e)*

Course Description: Students will explore options for breast health and common conditions.

Variable Credits: 2 to 4      Grading: S/U

*IMED424e: Diabetes Management (e)*

Course Description: Increase understanding of the management of Diabetes and patient counseling.

Variable Credits: 2 to 4    Grading: S/U

*IMED425e: Advanced Electrocardiogram Interpretation*

Course Description: This course is designed to enhance and improve medical student's ability to read and interpret electrocardiogram and correlate findings with clinical symptoms. Students will work through models, lectures, presentations, discussions, and hands-on practice to show proficiency in electrocardiogram interpretation.

Variable Credits: 2 to 4    Grading: S/U

*IMED499e: Internal Medicine Research (e)*

Course Description: The internal medicine research elective rotation experience is designed to provide the student with a basic understanding of internal medicine research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of internal medicine research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Variable Credits: 1 to 8                      Grading: S/U

*MBIO202e: Clinical Immunology and Microbiology (e)*

Course Description: This course is intended to provide a framework within which OMS-II students may integrate the principles of basic bacteriology, virology, and immunology into the diagnosis of patients within clinical scenarios.

Credits: 0.5      Variable Credits: 0.5 to 1    Grading: Pass/Fail - S/U

*MBIO499e: Microbiology Research (e)*

Course Description: The microbiology research elective rotation experience is designed to provide the student with a basic understanding of microbiology research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of microbiology research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1              Variable Credits: 1 to 8                      Grading: Pass/Fail - S/U

*MIMD101: Military Medicine*

Course Description: This course provides students in the Military Medicine track with education and training surrounding military leadership, military medicine and maintenance health and wellness for military physicians. Curriculum will be delivered through lectures, online and onsite training experiences, anatomy lab and simulation.

Credits: 1              Grading: Pass/Fail - S/U

*MIMD102: Military Medicine*

Course Description: This course provides students in the Military Medicine track with education and training surrounding military leadership, military medicine and maintenance health and wellness for military physicians. Curriculum will be delivered through lectures, online and onsite training experiences, anatomy lab and simulation.

Credits: 1              Grading: Pass/Fail - S/U

*MIMD201: Military Medicine*

Course Description: This course provides students in the Military Medicine track with education and training surrounding military leadership, military medicine and maintenance health and wellness for military physicians. Curriculum will be delivered through lectures, online and onsite training experiences, anatomy lab and simulation.

Credits: 1              Grading: Pass/Fail - S/U

*MIMD202: Military Medicine*

Course Description: This course provides students in the Military Medicine track with education and training surrounding military leadership, military medicine and maintenance health and wellness for military physicians. Curriculum will be delivered through lectures, online and onsite training experiences, anatomy lab and simulation.

Credits: 1              Grading: Pass/Fail - S/U

*MSK101e: Ultrasound (e)*

Course Description: This course provides the student with foundational elements of basic ultrasound principles. The student will be introduced to practical common uses of bedside diagnostic ultrasound in a variety of clinical settings.

Variable Credits: 0.5 to 1    Grading: Pass/Fail - S/U

*MSK 401e: Advanced Ultrasound/TA*

Course Description: Students will learn advanced ultrasound techniques as well as support faculty with pre-clinical ultrasound labs and community support.

PREREQUISITE: Completion of MSK201e

Variable Credits: 2 to 4 Grading: S/U

*OBGY301: Obstetrics and Gynecology*

Course Description: This required clerkship provides students with clinical exposure, observation and training to further their understanding of obstetrics and gynecology. Students focus on the diagnosis, treatment and management of common OB/GYN conditions to prepare for more advanced study of the discipline.

Credits: 6 Grading: Pass/Fail - H/HP/P/F

*OBGY401e: General Gynecology (e)*

Course Description: The general gynecology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general gynecology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4 Variable Credits: 2 to 8 Grading: Pass/Fail - S/U

*OBGY402e: General Obstetrics (e)*

Course Description: The general obstetrics elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general obstetrics. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4 Variable Credits: 2 to 8 Grading: Pass/Fail - S/U

*OBGY402s: General Obstetrics (s)*

Course Description: The general obstetrics sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general obstetrics. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of general obstetrics. Sub-internships must be completed as full block experiences.

Credits: 4 Variable Credits: 2 to 8 Grading: Pass/Fail - S/U

*OBGY403e: General Obstetrics and Gynecology (e)*

Course Description: The general obstetrics and gynecology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general obstetrics and gynecology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4 Variable Credits: 2 to 8 Grading: Pass/Fail - S/U

*OBGY403s: General Obstetrics and Gynecology (s)*

Course Description: The general obstetrics and gynecology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general obstetrics and gynecology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of general obstetrics and gynecology. Sub-internships must be completed as full block experiences.

Credits: 4 Variable Credits: 2 to 8 Grading: Pass/Fail - S/U

*OBGY404e: Gynecologic Oncology (e)*

Course Description: The gynecologic oncology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of gynecologic oncology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4 Variable Credits: 2 to 8 Grading: Pass/Fail - S/U

*OBGY404s: Gynecologic Oncology (s)*

Course Description: The gynecologic oncology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of gynecologic oncology. This sub-internship is restricted to fourth-year students

and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of gynecologic oncology. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*OBGY405e: Maternal Fetal Medicine (e)*

Course Description: The maternal fetal medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of maternal fetal medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*OBGY405s: Maternal Fetal Medicine (s)*

Course Description: The maternal fetal medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of maternal fetal medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of maternal fetal medicine. Sub-internships must be completed as full block experiences.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*OBGY406e: Reproductive Endocrine (e)*

Course Description: The reproductive endocrine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of reproductive endocrine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.  
Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*OBGY407e: Reproductive & Women's Health*

Course Description: This elective will help the student learn to evaluate and manage patients' reproductive needs, including contraception for low- and high-risk patients, preventive medical care, outpatient ultrasound, and pregnancy termination.  
Variable Credits: 2 to 4      Grading: S/U

*OBGY499e: Obstetrics and Gynecological Research (e)*

Course Description: The OB/GYN research elective rotation experience is designed to provide the student with a basic understanding of OB/GYN research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of OB/GYN research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.  
Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*OCS201e: Foundations in Teaching OMM (e)*

Course Description: This course provides selected second-year students with experience in teaching Principles of Osteopathic Medicine in the laboratory setting. Participants assist first-year students in their weekly laboratory experience and provide individual instruction and demonstration of osteopathic techniques under the supervision of faculty and staff. May be repeated once. Instructor approval required.  
Credits: 0.5      Variable Credits: 0.5 to 1      Grading: Pass/Fail - S/U

*OCS203e: Osteopathic Approach to Pain Management (e)*

Course Description: The foundations of the Osteopathic profession are tied to the addiction crisis of Dr. A.T. Still time and have been intertwined with the profession ever since. The course will review current trends in pain management and addiction medicine, as well as the historic role of pain management and addiction in Osteopathic medicine. A holistic approach will be reviewed that synergistically integrates modern osteopathic principles and practices with pain management and addiction medicine. Specific examples will be utilized to deepen student understanding and create a mastery of the material. Course completion will result in certificate achievement in "An Osteopathic Approach to Pain Management and Addiction Medicine" and recognition at graduation.  
Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*OCS302e: Osteopathic Cranial Manipulative Medicine (e)*

Course Description: The basic concepts of Osteopathic Cranial Manipulative Medicine (OCMM) were introduced by William Garner Sutherland, D.O. in 1929. Today, OCMM is part of every Osteopathic medical school curricula and tested by the National Board of Osteopathic Medical Examiners. The course is designed to meet the Cranial Academy Introductory Course Guidelines as an avenue for

student participants to qualify for Osteopathic Cranial Academy (OCA) student membership and attendance at the Annual Conference. OCMM course completion should facilitate students in feeling confident that they can apply the basics of OCMM, under supervision, on their clinical rotations. It is highly encouraged that students continue in their training and attend courses through either the OCA or the Sutherland Cranial Teaching Foundation.

Credits: 2      Variable Credits: 2 to 4      Grading: Pass/Fail - S/U

*OCS401e: Osteopathic Manipulation (e)*

Course Description: This elective clerkship rotation allows the OMS-III or OMS-IV for increased clinical training in OMM and OPP to enhance their clinical skills and abilities. These experiences may include a variety of settings including those that are hospital-based, office/clinic-based, or within and OPP Department that may offer a variety of educational and patient settings. Repeatable for credit with permission.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*OCS401s: Osteopathic Manipulation (s)*

Course Description: This elective sub-internship rotation allows the OMS-IV for increased clinical training in OMM and OPP to enhance their clinical skills and abilities. These experiences may include a variety of settings including those that are hospital-based, office/clinic-based, or within and OPP Department that may offer a variety of educational and patient settings. Repeatable for credit with permission.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*OMED102: Introduction to Osteopathic Principles and Philosophy*

Course Description: Introduction to Osteopathic Principles and Philosophy introduces the student to the history, tenets and philosophy of osteopathic medicine, demonstrating the integration of those into the patient centered care model. Foundational elements of Osteopathic Manipulative Medicine (OMM) are introduced. The student will also be introduced to the foundations of health systems sciences.

[COM2025 only] \*Archived?

Credits: 3.5      Grading: %Percentage / Letter Grade

*OMED103: Foundations of Medicine*

Course Description: Foundations of Medicine is designed to build a knowledge base that will assist first-year students in understanding the material presented in subsequent sections. The course focuses on baseline fundamental knowledge in areas of biochemistry, molecular and cellular biology, and genetics.

Credits: 6      Grading: %Percentage / Letter Grade

*OMED104: Structure and Function*

Course Description: The Structure and Function course introduces the interrelation between anatomic structures and the physiologic function through prosected anatomy instruction and aligned physiology, histology, and developmental biology. Related topics covered in this section include embryology, aging, impact of common disease states. In this section, students will also begin exposure to medical imaging and anatomy labs.

Credits: 8      Grading: %Percentage / Letter Grade

*OMED105: Inherent Abilities*

Course Description: This course introduces concepts of humoral and cellular immunology necessary to understand the concepts of the body's inherent defense mechanisms. Among the topics, the course includes content on microbiology, activation of immunity, antigen recognition, immunogenetics, cytokines, inflammation and infection, and histology of organs related to the immune system. Clinical application including how allergy/immunology, dermatology, oncology and rheumatology accentuate the function of the immune system will be presented.

Credits: 6      Grading: %Percentage / Letter Grade

*OMED106: Mechanisms of Disease*

Course Description: The objective of this course is to provide a sound foundation for the understanding of the etiology, diagnosis, progression, and appearance of human disease processes. Mechanisms of Disease addresses the fundamental principles of pathology common to all disease processes with a focus on epidemiology. Introduction of foundational elements of pharmacology, epidemiology, nutrition and lifestyle medicine interventions of the disease states are emphasized.

Credits: 6      Grading: %Percentage / Letter Grade

*OMED200: Longitudinal Community Medicine (e)*

Course Description: An elective to prepare for clerkships, students will deepen their understanding of the duties of members of a complete

clinical care team, increase their professional communication skills, and enhance their electronic medical record knowledge and medical documentation skills. Students will personally attend three clinical experiences with a physician and three clinical experiences with an interprofessional practitioner in an ambulatory or inpatient setting (clinical experiences are considered a **minimum** of four hours). There will also be two (2) required one-hour case-based discussions with clinical faculty using information gathered from student case submissions, one mid-semester and one end of semester.

Credits: 1.0      Grading: Pass/Fail

#### *OMED202: Neuroscience*

Course Description: The Neuroscience section introduces the neuroscience and pathophysiologic basis of neurologic disease and human behaviors. There is an emphasis on normal and abnormal neurological functioning and an integration of disciplines with diagnosis, treatment and management of diseases affecting the neurologic systems.

Credits: 6      Grading: %Percentage / Letter Grade

#### *OMED203 Endocrine*

Course Description: The Endocrine section focuses on the synthesis, function and regulation of various hormones in both normal and disease states. The structure and role of various endocrine organs is studied. Content for each presentation will include basic science material fundamental to understanding of the normal and abnormal endocrine functioning and an integration of disciplines with diagnosis, treatment and management of diseases affecting the endocrine systems. \*Archived

#### *OMED214: Endocrine*

Course Description: The Endocrine section focuses on the synthesis, function and regulation of various hormones in both normal and disease states. The structure and role of various endocrine organs is studied. Content for each presentation will include basic science material fundamental to understanding of the normal and abnormal endocrine functioning and an integration of disciplines with diagnosis, treatment and management of diseases affecting the endocrine systems. The Reproduction and Development section introduces the male and female reproductive systems, introduces the fetus and takes the student through the life cycle of development. The section will begin with a discussion of the normal structure and function of both the male and female reproductive systems. Clinical presentations of major adult and geriatric reproductive diseases and dysfunctions will be covered, with an emphasis on women's health.

Credits: 6      Grading: %Percentage / Letter Grade

#### *OMED204: Reproduction and Development*

Course Description: The Reproduction and Development section introduces the male and female reproductive systems, introduces the fetus as the patient and takes the student through the life cycle of development. The section will begin with a discussion of the normal structure and function of both the male and female reproductive systems. Clinical presentations of major adult and geriatric reproductive diseases and dysfunctions will be covered, with an emphasis on women's health. \*Archived

Credits: 4      Grading: %Percentage / Letter Grade

#### *OMED205: Skin, Blood and Lymph*

Course Description: Students will focus on the structure and function of lymphoid tissues to enhance their understanding of the immune system, integumentary system, and hematology. Students will also consider diseases and disease processes affecting red and white cells and lymphoid tissue.

Credits: 4      Grading: %Percentage / Letter Grade

#### *OMED206: Renal*

Course Description: The Renal section introduces students to the diagnosis, treatment and management of diseases affecting the renal system. Particular attention is given to the role of the kidney in the regulation of blood pressure, in acid/base and electrolyte balance, and in red blood cell production.

Credits: 2      Grading: %Percentage / Letter Grade

#### *OMED207: Cardiopulmonary*

Course Description: This course introduces students to the basics of interactions between the cardiovascular and pulmonary systems. The development of the systems is used to introduce the functional aspects of the systems and includes routine laboratory testing, normal reference ranges, and interpretation of results.

Credits: 8      Grading: %Percentage / Letter Grade

#### *OMED208: Gastrointestinal*

Course Description: This course introduces students to the gastrointestinal system with an emphasis on the normal structure and function.

The course includes routine laboratory testing, normal reference ranges, and interpretation of results.

Credits: 4      Grading: %Percentage / Letter Grade

*OMED209: Musculoskeletal*

Course Description: This course introduces students to the musculoskeletal system through instruction and laboratory experiences. Emphasis is placed on the normal function and evaluation of connective tissues, muscles, bones and joints.

Credits: 4      Grading: %Percentage / Letter Grade

*OMED210: Surgery*

Course Description: This course introduces students to skills and concepts of surgical principles. It reinforces fundamental concepts of surgical patient care and common clinical presentations resulting in surgical intervention.

Credits: 2      Grading: %Percentage / Letter Grade \*Archived

*OMED211: Pediatrics*

Course Description: This course introduces the student to the unique health and developmental elements of the newborn, infant, pediatric, and adolescent patient. It prepares the student to recognize and apply concepts specific patient care elements of this population. The clinical setting may be inpatient, outpatient, or a mix of both.

Credits: 2      Grading: %Percentage / Letter Grade \* Archived

*OMED212: Transition to Clinical Care*

Course Description: This course incorporates elements required for the transition of students into clinical rotations. HIPPA training, introduction to universal precautions, PPE, needle stick protocols and completion of mask fitting will be addressed. The successful updating of immunizations, drug screen, background check, accomplishment of Basic Life Support (BLS) and Advanced Cardiac Life Support Certification (ACLS) is required to advance to third year of studies. (All students must take the Noorda-COM offered course.)

Credits: 0.5      Grading: %Percentage / Letter Grade

*OMED213: Clinical Management I*

Course Description: This course is designed to reinforce fundamental concepts from OMS I and OMS II and prepare the student for the transition to the direct patient care environment. Students will receive direct guidance for board preparation through question review, content review, and independent study. \*Archived

Credits: 2.5      Grading: Pass/Fail

*OMED215: Clinical Integration*

Course Description: This course is designed to reinforce fundamental concepts from OMS I and OMS II and prepare the student for the transition to the third year direct. Students will receive direct guidance for board preparation through question review, content review, and independent study.

Credits: 2.5      Grading: Pass/Fail

*OMED301: Clinical Integration II*

Course Description: Clinical Management prepares the student for the transition into the fourth-year direct patient care environment where they should be prepared to participate in sub-internships. Clinical decision making and clinical presentation are emphasized. This includes continued clinical use of the library, medical information literacy, medical technologies and evidence-based practice.

Credits: 0.5      Grading: S/U

*OSPP400e: Advanced OMM (e)*

Course Description: Students will advance their OMM clinical knowledge, help with pre-clinical content, as well as assist teaching of pre-clinical OMM students.

Variable Credits: 2 to 4      Grading: S/U

*OSPP499e: Osteopathic Clinical Skills Research (e)*

Course Description: The Osteopathic Clinical Skills Research clerkship rotation is available for an OMS with approval of the Noorda-COM OPP Department and the Office of Research. The participating OMS will focus upon an area of interest within OPP and an approved Noorda-COM clinical faculty supervisor will be established. Specific and achievable research goals and objectives are prerequisite for course participation. Participants will work according to a schedule with weekly written reports to their faculty supervisor. Repeatable for credit with permission.

Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*PATH401e: Anatomic Pathology (e)*

Course Description: The anatomic pathology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of anatomic pathology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH401s: Anatomic Pathology (s)*

Course Description: The anatomic pathology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of anatomic pathology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of anatomic pathology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH402e: Blood Banking (e)*

Course Description: The blood banking elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of blood banking.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH403e: Clinical Pathology (e)*

Course Description: The clinical pathology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of clinical pathology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH403s: Clinical Pathology (s)*

Course Description: The clinical pathology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of clinical pathology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of clinical pathology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH404e: Forensic Pathology (e)*

Course Description: The forensic pathology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of forensic pathology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 4 to 8      Grading: Pass/Fail - S/U

*PATH404s: Forensic Pathology (s)*

Course Description: The forensic pathology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of forensic pathology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of forensic pathology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 4 to 8      Grading: Pass/Fail - S/U

*PATH405e: Hematopathology (e)*

Course Description: The hematopathology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hematopathology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH405s: Hematopathology (s)*

Course Description: The hematopathology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of hematopathology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct

supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of hematology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PATH406e: Toxicology (e)*

Course Description: The toxicology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of toxicology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 4 to 8      Grading: Pass/Fail - S/U

*PATH406s: Toxicology (s)*

Course Description: The toxicology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of toxicology. This sub-internship is restricted to fourth year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of toxicology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 4 to 8      Grading: Pass/Fail - S/U

*PATH499e: Pathology Research (e)*

Course Description: The pathology research elective rotation experience is designed to provide the student with a basic understanding of pathology research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of pathology research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*PEDS202e: Introduction to Newborn Care (e)*

Course Description: This course provides an introduction to newborn infants in a clinical setting. Students meet with the physician to discuss complicated newborn care, resuscitation, routine care and orders, and palliative care for neonates and parents.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*PEDS207e: Neonatal Resuscitation (e)*

Course Description: This course provides instruction in neonatal resuscitation based on the American Academy of Pediatrics and the American Heart Association's International Guidelines. NRP certification.

Credits: 1      Variable Credits: 1 to 2      Grading: Pass/Fail - S/U

*PEDS301: Pediatrics*

Course Description: This required clerkship provides students with clinical exposure, observation and training to further their understanding of pediatrics. Students focus on inpatient and outpatient medical management of infants and children to prepare for more advanced study of the discipline.

Credits: 6      Grading: Pass/Fail - H/HP/P/F

*PEDS401e: Adolescent Medicine (e)*

Course Description: The adolescent medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of adolescent medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS401s: Adolescent Medicine (s)*

Course Description: The adolescent medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of adolescent medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of adolescent medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS402e: Community Pediatrics/Inpatient (e)*

Course Description: The pediatric inpatient elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric inpatient. These experiences take place in a hospital setting.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS402s: Community Pediatrics/Inpatient (s)*

Course Description: The pediatric inpatient sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric inpatient. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric inpatient. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS404e: General Pediatrics Outpatient (e)*

Course Description: The general pediatric outpatient elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general pediatric outpatient. These experiences take place in a clinical office setting.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS404s: General Pediatrics Outpatient (s)*

Course Description: The general pediatric outpatient sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general pediatric outpatient. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of general pediatric outpatient. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS405e: Neonatology (e)*

Course Description: The neonatology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of neonatology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS405s: Neonatology (s)*

Course Description: The neonatology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of neonatology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of neonatology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS406e: Pediatric Allergy/Immunology (e)*

Course Description: The pediatric allergy/immunology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric allergy/immunology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS406s: Pediatric Allergy/Immunology (s)*

Course Description: The pediatric allergy/immunology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric allergy/immunology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric allergy/immunology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS407e: Pediatric Cardiology (e)*

Course Description: The pediatric cardiology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric cardiology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS407s: Pediatric Cardiology (s)*

Course Description: The pediatric cardiology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric cardiology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric cardiology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS408e: Pediatric Critical Care Medicine (e)*

Course Description: The pediatric critical care medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric critical care medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS408s: Pediatric Critical Care Medicine (s)*

Course Description: The pediatric critical care medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric critical care medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric critical care medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS409e: Pediatric Dermatology (e)*

Course Description: The pediatric dermatology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric dermatology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS409s: Pediatric Dermatology (s)*

Course Description: The pediatric dermatology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric dermatology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric dermatology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS410e: Pediatric Emergency Medicine (e)*

Course Description: The pediatric emergency medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric emergency medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS410s: Pediatric Emergency Medicine (s)*

Course Description: The pediatric emergency medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric emergency medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric emergency medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS411e: Pediatric Endocrinology/Metabolism (e)*

Course Description: The pediatric endocrinology/metabolism elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric endocrinology/metabolism. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS411s: Pediatric Endocrinology/Metabolism (s)*

Course Description: The pediatric endocrinology/metabolism sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric endocrinology/metabolism. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric endocrinology/metabolism. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS412e: Pediatric Gastroenterology (e)*

Course Description: The pediatric gastroenterology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric gastroenterology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS412s: Pediatric Gastroenterology (s)*

Course Description: The pediatric gastroenterology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric gastroenterology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric gastroenterology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS413e: Pediatric Genetics (e)*

Course Description: The pediatric genetics elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric genetics. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS413s: Pediatric Genetics (s)*

Course Description: The pediatric genetics sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric genetics. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric genetics. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS414e: Pediatric Hematology/Oncology (e)*

Course Description: The pediatric hematology/oncology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric hematology/oncology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS414s: Pediatric Hematology/Oncology (s)*

Course Description: The pediatric hematology/oncology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric hematology/oncology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric hematology/oncology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS415e: Pediatric Infectious Disease (e)*

Course Description: The pediatric infectious disease elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric infectious disease. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS415s: Pediatric Infectious Disease (s)*

Course Description: The pediatric infectious disease sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric infectious disease. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric infectious disease. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS416e: Pediatric Nephrology (e)*

Course Description: The pediatric nephrology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric nephrology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS416s: Pediatric Nephrology (s)*

Course Description: The pediatric nephrology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric nephrology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric nephrology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS417e: Pediatric Neurology (e)*

Course Description: The pediatric neurology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric neurology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS417s: Pediatric Neurology (s)*

Course Description: The pediatric neurology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric neurology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric neurology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS418e: Pediatric Pulmonary Medicine (e)*

Course Description: The pediatric pulmonary medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric pulmonary medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS418s: Pediatric Pulmonary Medicine (s)*

Course Description: The pediatric pulmonary medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric pulmonary medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses

on self-education and includes more advanced study of pediatric pulmonary medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS419e: Pediatric Rehabilitation (e)*

Course Description: The pediatric rehabilitation elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric rehabilitation. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS420e: Pediatric Rheumatology (e)*

Course Description: The pediatric rheumatology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric rheumatology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS420s: Pediatric Rheumatology (s)*

Course Description: The pediatric rheumatology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric rheumatology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric rheumatology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PEDS421e: Advanced Topics in Pediatrics*

Course Description: Advanced topics in pediatrics is an elective rotation designed to further medical students' understanding and knowledge of topics that are integral in the care of the pediatric population. Students will explore these topics through modules, reading, presentations, and discussions.

Variable Credits: 2 to 4      Grading: S/U

*PEDS422e: Emergency Response Skills in Pediatrics*

Course Description: Emergency response skills in pediatrics will expose students to life-saving skills specific to the pediatric population through modules, lectures, discussion, and simulation experiences. Students will need to demonstrate proficiency in all national standards and requirements.

Variable Credits: 0.5 to 2      Grading: S/U

Transition to residency will present topics and elements essential for students to transition into post graduate year 1.

Credits: 2      Grading: S/U

*PEDS499e: Pediatrics Research (e)*

Course Description: The pediatric research elective rotation experience is designed to provide the student with a basic understanding of pediatric rheumatology research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of pediatric research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*PHAR201e: Transitioning from Basic Pharmacology to Pharmacotherapeutics (e)*

Course Description: This course is intended to provide a framework within which OMS-II students may integrate the principles of basic pharmacology, evidence-based medicine guidelines and best practices in the treatment of patients within clinical scenarios.

Credits: 0.5      Grading: Pass/Fail - S/U

*PHAR499e: Pharmacological Research (e)*

Course Description: The goal of this course is to provide the student with hands-on exposure to basic science or clinical research in the field of pharmacology. The student will work with a mentor and will be actively involved in the development, execution, and evaluation of a research project.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*PHYS499e: Physiology Research (e)*

Course Description: The goal of this course is to provide the student with hands-on exposure to basic science or clinical research in the field of physiology. The student will work with a mentor and will be actively involved in the development, execution, and evaluation of a research project.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*PIF 101: Professional Identity Formation I*

Course Description: In this four-year longitudinal course, students will spend the year exploring elements of professional identity formation that encompasses five components including: Diversity, equity, inclusion and belonging, Leadership in Osteopathic Medicine, Career Development and Planning, Wellness, Academic Success. At the end of the four-years, students will experience a capstone to combine all the elements of this course, the four-year longitudinal CEPA course which includes OPP, and the research curriculum.

Credits: 2      Grading: S/U

*PIF 201: Professional Identity Formation II*

Course Description: In this four-year longitudinal course, students will begin to integrate elements of professional identity formation that encompasses five components including: Diversity, equity, inclusion and belonging, Leadership in Osteopathic Medicine, Career Development and Planning, Wellness, Academic Success. At the end of the four-years, students will experience a capstone to combine all the elements of this course, the four-year longitudinal CEPA course which includes OPP, and the research curriculum.

Credits: 2      Grading: S/U

*PIF 301: Professional Identity Formation III*

Course Description: In this four-year longitudinal course, students will build a foundation for professional identity formation that encompasses five components including: Diversity, equity, inclusion and belonging, Leadership in Osteopathic Medicine, Career Development and Planning, Wellness, Academic Success. At the end of the four-years, students will experience a capstone to combine all the elements of this course, the four-year longitudinal CEPA course which includes OPP, and the research curriculum.

Credits: 1      Grading: S/U

*PIF 401: Professional Identity Formation IV*

Course Description: In this four-year longitudinal course, students will continue to build a solid foundation of professional identity that will allow them to transition into residency by encompassing five components including: Diversity, equity, inclusion and belonging, Leadership in Osteopathic Medicine, Career Development and Planning, Wellness, Academic Success. At the end of the four-years, students will experience a capstone to combine all the elements of this course, the four-year longitudinal CEPA course which includes OPP, and the research curriculum.

Credits: 1      Grading: S/U

*PMED401e: Aerospace/Aviation Medicine (e)*

Course Description: The aerospace/aviation medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of aerospace/aviation medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PMED402e: Environmental Health (e)*

Course Description: The environmental health elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of environmental health. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PMED403e: General Preventative Medicine (e)*

Course Description: The general preventative medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general preventative medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PMED404e: Occupational Medicine (e)*

Course Description: The occupational medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of occupational medicine. These experiences take place in a clinical office or hospital

setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PMED404s: Occupational Medicine (s)*

Course Description: The occupational medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of occupational medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of occupational medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PMED405e: Public Health (e)*

Course Description: The public health elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of public health. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PMED499e: Preventative Medicine/Public Health Research (e)*

Course Description: The preventative/public health research elective rotation experience is designed to provide the student with a basic understanding of preventative/public health research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of preventative/public health research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*PSYC301: Psychiatry*

Course Description: This required clerkship provides students with clinical exposure, observation and training to further their understanding of psychiatry. Students focus on assisting with the inpatient and outpatient treatment and medical management of patients with psychiatric disorders to better understand mental health and illness to prepare for more advanced study of the discipline.

Credits: 6      Grading: Pass/Fail - H/HP/P/F

*PSYC401e: General Psychiatry (e)*

Course Description: The general psychiatry elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general psychiatry. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PSYC401s: General Psychiatry (s)*

Course Description: The general psychiatry elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general psychiatry. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PSYC402e: Pediatric Psychiatry (e)*

Course Description: The pediatric psychiatry elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric psychiatry. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PSYC402s: Pediatric Psychiatry (s)*

Course Description: The pediatric psychiatry sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric psychiatry. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric psychiatry. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*PSYC499e: Psychiatry Research (e)*

Course Description: The pediatric psychiatry research elective rotation experience is designed to provide the student with a basic understanding of pediatric psychiatry research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of pediatric psychiatry research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*RADI402e: General Radiology (e)*

Course Description: The general radiology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general radiology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI402s: General Radiology (s)*

Course Description: The general radiology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general radiology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of general radiology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI403e: Interventional Radiology (e)*

Course Description: The interventional radiology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of interventional radiology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI403s: Interventional Radiology (s)*

Course Description: The interventional radiology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of interventional radiology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of interventional radiology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI404e: Nuclear Medicine (e)*

Course Description: The nuclear medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of nuclear medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI405e: Pediatric Radiology (e)*

Course Description: The pediatric radiology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric radiology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI405s: Pediatric Radiology (s)*

Course Description: The pediatric radiology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric radiology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric radiology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI406e: Radiation Oncology (e)*

Course Description: The radiation oncology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of radiation oncology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI406s: Radiation Oncology (s)*

Course Description: The radiation oncology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of radiation oncology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of radiation oncology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*RADI499e: Radiology Research (e)*

Course Description: The radiology research elective rotation experience is designed to provide the student with a basic understanding of radiology research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of radiology research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 1      Variable Credits: 1 to 8      Grading: Pass/Fail - S/U

*RF 101: Research Foundation I*

Course Description: This foundational course aims to introduce first-year medical students to the principles and methods of medical research. This course will provide students with the necessary tools to understand, critically analyze, and apply research findings in their future clinical practice. Over the course of the semester, students will explore different aspects of the research process, including formulating research questions, conducting literature reviews, understanding research design and methodologies, data collection and analysis, interpreting statistical results, and ethical considerations in medical research. At the end of the course, students will have a fundamental understanding of the role of research in evidence-based medicine. They will be equipped with the skills to contribute to medical research and to apply current research findings to their medical practice. Furthermore, this course will form a basis for pursuing more advanced research opportunities in their subsequent years of medical school.

Credits: 2      Grading: S/U

*RF 201: Research Foundation II*

Course Description: Building on the knowledge gained in Research Foundation I, Research Foundation II delves deeper into research methods, allowing students to focus on advanced concepts in the areas of research in which they are working. Throughout the course, students will have opportunities to immerse themselves in the practical aspects of research. They will work on group projects that involve developing research proposals, collecting and analyzing data, and communicating research findings. The course aims to further enhance students' capacity to interpret and critically appraise medical literature and apply research evidence in clinical practice. By the end of the course, students should have an in-depth understanding of the intricacies of medical research and be proficient in conducting, appraising, and integrating research into clinical practice. This course serves as an essential steppingstone for students interested in a career in academic medicine or those wishing to practice evidence-based medicine.

Credits: 2      Grading: S/U

*RF 301: Research Foundation III*

Course Description: Research Foundation III is designed to guide third-year medical students through the process of researching, writing, and presenting clinical case studies drawn from their clerkship experiences. This hands-on course builds upon the research methods learned in Research Foundations I and II, now applied within a practical, clinical context. In this course, students will select two compelling clinical cases encountered during their clerkships and undertake an in-depth exploration of each. This investigation will encompass a comprehensive review of the relevant medical literature, an analysis of the diagnosis and management strategies utilized, as well as reflection on patient outcomes and potential areas of improvement. Upon completion, students will have developed strong skills in case-based research, reflective practice, and professional communication. They will have a deeper understanding of the interplay between theory and practice, and the importance of ongoing learning and reflection in medical practice. Furthermore, they will be well-prepared for any future case presentations and case-based discussions during their medical career.

Credits: 1      Grading: S/U

*RF 401: Research Foundation IV*

Course Description: Research Foundation IV is a culminating course for fourth-year medical students, focusing on scholarly writing,

navigating the publication process, and presenting their capstone projects that encapsulate their medical school experience. Throughout this course, students will revisit the research they conducted over their medical school journey, compile their findings, and work on preparing manuscripts suitable for publication in a scholarly journal. They will also develop an engaging capstone presentation that communicates the breadth and depth of their learning experiences, research endeavors, and clinical practice over their medical education. Upon completion, students will be equipped with essential skills for their lifelong learning and professional growth in the field of medicine. This course serves as a steppingstone for students as they transition from medical school to residency, preparing them to continue their scholarly endeavors and engage in professional communication in their upcoming careers.

Credits: 1                      Grading: S/U

#### *RSCH101: Research Journal Club*

Course Description: The Journal Club course is an elective course for medical students and is a required element of the Research Track curriculum. The course is intended to help students develop the skills required to critically assess articles in the scientific literature including evaluation of the design, the limitations of methods utilized, the relevance of the article to what was previously known, and the future directions the findings support. Students will also develop communication skills through in-class presentations and discussions. The skills developed through this course will help students assess scientific publications throughout their careers and develop, conduct and present future research of their own.

Credits: 0.5                      Variable Credits: 0.5 to 8                      Grading: Pass/Fail - S/U

#### *RSCH201e: Introduction to PASW (SPSS) and Biomedical Sciences Statistics (e)*

Course Description: This course is intended to provide advanced exposure and instruction on biomedical statistics and research methodology along with hands-on experience in data management and statistical analysis using PASW (SPSS) Windows-based statistical software. Students learn to enter, import, define, manipulate, transform, recode, combine and calculate variables, as well as assess normality of data, generate descriptive and inferential statistical analyses and associated output, export output, and are provided exposure to test interpretation.

Credits: 1                      Grading: Pass/Fail - S/U

#### *RSCH202e: Data Management Using SPSSII (e)*

Course Description: This course is intended to build on the analytical skills acquired in RSCH 201e.

Credits: 1                      Grading: Pass/Fail - S/U

#### *RSCH499: Research Practicum*

Course Description: The Research Practicum is a required course for the research track. It is accomplished at the end of the first year of study. The course is intended to provide the student with an intensive research experience where they will have the chance to become proficient in a primary data gathering technique and generate data. Students will work with a faculty mentor to develop skills necessary to engage in basic science or clinical research, including development, technique, analysis, literature review, presentation and discussion.

Credits: 1                      Variable Credits: 1 to 8                      Grading: Pass/Fail - S/U

#### *SURG203e: Advanced Suture Skills (e)*

Course Description: This course is designed for students interested in developing better skills in suturing. Students will work in supervised small groups to develop and perfect their skills. Must complete OMS-I as a prerequisite to this course. Must apply and be accepted by professor.

Credits: 0.5                      Variable Credits: 0.5 to 1                      Grading: Pass/Fail - S/U

#### *SURG301: General Surgery*

Course Description: This required clerkship provides students with clinical exposure, observation and training to further their understanding and skills of general surgery. Students actively participate in the care of patients in various stages of evaluation and treatment. These include, but are not limited to, preoperative visits, inpatient admission, operative procedures, and inpatient and outpatient recovery. Students participate as members of a multidisciplinary team responsible for patient care to prepare for more advanced study of the discipline.

Credits: 6                      Grading: Pass/Fail - H/HP/P/F

#### *SURG401e: Cardiovascular/Thoracic Surgery (e)*

Course Description: The cardiovascular/thoracic surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of cardiovascular/thoracic surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4                      Variable Credits: 2 to 8                      Grading: Pass/Fail - S/U

*SURG401: Cardiovascular/Thoracic Surgery (s)*

Course Description: The cardiovascular/thoracic surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of cardiovascular/thoracic surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of cardiovascular/thoracic surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG402e: Colorectal Surgery (e)*

Course Description: The colorectal surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of colorectal surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG402s: Colorectal Surgery (s)*

Course Description: The colorectal surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of colorectal surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of colorectal surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG403e: General Surgery (e)*

Course Description: The general surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG403s: General Surgery (s)*

Course Description: The general surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of general surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of general surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG404e: Neurosurgery (e)*

Course Description: The neurosurgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of neurosurgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG404s: Neurosurgery (s)*

Course Description: The neurosurgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of neurosurgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of neurosurgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG405e: Ophthalmology (e)*

Course Description: The ophthalmology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of ophthalmology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG405: Ophthalmology (s)*

Course Description: The ophthalmology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of ophthalmology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of ophthalmology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG406e: Orthopedic Surgery (e)*

Course Description: The orthopedic surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of orthopedic surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG406s: Orthopedic Surgery (s)*

Course Description: The orthopedic surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of orthopedic surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of orthopedic surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG407e: Otolaryngology/ENT (e)*

Course Description: The otolaryngology/ENT elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of otolaryngology/ENT. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG407s: Otolaryngology/ENT (s)*

Course Description: The otolaryngology/ENT sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of otolaryngology/ENT. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of otolaryngology/ENT. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG408e: Pediatric Surgery (e)*

Course Description: The pediatric surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG408s: Pediatric Surgery (s)*

Course Description: The pediatric surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of pediatric surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of pediatric surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG409e: Plastic Surgery (e)*

Course Description: The plastic surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of plastic surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG409s: Plastic Surgery (s)*

Course Description: The plastic surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of plastic surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of plastic surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG410e: Podiatry / Foot Ankle (e)*

Course Description: The podiatry/foot ankle elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of podiatry/foot ankle. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG411e: Transplant Medicine (e)*

Course Description: The transplant medicine elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of transplant medicine. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG411s: Transplant Medicine (s)*

Course Description: The transplant medicine sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of transplant medicine. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of transplant medicine. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG412e: Trauma Surgery (e)*

Course Description: The trauma surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of trauma surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG412s: Trauma Surgery (s)*

Course Description: The trauma surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of trauma surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of trauma surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG413e: Urology (e)*

Course Description: The Urology elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Urology. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG413s: Urology (s)*

Course Description: The Urology sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Urology. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of Urology. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG414e: Vascular Surgery (e)*

Course Description: The Vascular surgery elective rotation is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Vascular surgery. These experiences take place in a clinical office or hospital setting, presenting unique opportunities regarding the spectrum of clinical situations encountered.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG414s: Vascular Surgery (s)*

Course Description: The Vascular surgery sub-internship is designed to provide students with clinical exposure, observation, and training to further their understanding within the field of Vascular surgery. This sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of Vascular surgery. Sub-internships must be completed as full block experiences.

Credits: 4      Variable Credits: 2 to 8      Grading: Pass/Fail - S/U

*SURG499e: Surgery Research (e)*

Course Description: The surgery research elective rotation experience is designed to provide the student with a basic understanding of surgery research. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study of surgery research. This elective rotation may take place in a wide variety of clinical, hospital or laboratory settings.

Credits: 8      Grading: S/U

**List of Electives and Sub-Electives**

<b>Course ID</b>	<b>Title</b>	<b>Course ID</b>	<b>Title</b>
ANES 401e/402s	Anesthesiology (E) or (Sub-I)	PATH 404e	Forensic Pathology (E)
ANES 402e	Pain Management (E)	PATH 405e	Hematopathology (E)
CLMD 401e	Healthcare Improvement (E)	PATH 406e	Toxicology (E)
CLMD 402e	Healthcare Management and Public Health Policy (E)	PEDS 401e	Adolescent Medicine (E)
CLMD 403e	Integrated Medicine (E)	PEDS 402e/402s	Community Pediatrics/Inpatient Hosp (E) or (Sub-I)
CLMD 404e	Medical Informatics (E)	PEDS 404e/404s	General Pediatrics /Outpatient (E) or (Sub-I)
FMED 401e	Community Medicine (E)	PEDS 405e	Neonatology (E)
FMED 402e/402s	Family Medicine (E) or (Sub-I)	PEDS 406e	Pediatric Allergy/Immunology (E)
FMED 403e	Geriatrics (E)	PEDS 407e/407s	Pediatric Cardiology (E) or (Sub-I)
FMED 404e	Hyperbaric Medicine/Wound Care (E)	PEDS 408e/408s	Pediatric Critical Care Medicine (E) or (Sub-I)
FMED 301e*	International Community Medicine Independent Study (E)	PEDS 409e	Pediatric Dermatology (E)
FMED 302e*	International Community Medicine (E)	PEDS 410e/410s	Pediatric Emergency Medicine (E) or (Sub-I)
FMED 405e	Travel Medicine (E)	PEDS 411e/411s	Pediatric Endocrinology/Metabolism (E) or (Sub-I)
FMED 406e/406s	Physical Medicine and Rehabilitation (E) or (Sub-I)	PEDS 412e/412s	Pediatric Gastroenterology (E) or (Sub-I)
FMED 408e/408s	Rural/Underserved Primary Care II (E) or (Sub-I)	PEDS 413e/413s	Pediatric Genetics (E) or (Sub-I)
FMED 409e/409s	Sports Medicine (E) or (Sub-I)	PEDS 414e/414s	Pediatric Hematology/Oncology (E) or (Sub-I)
FMED 410e	International Community Medicine (E)		
GENE 499e	Medical Genetics Research (E)	PEDS 415e/415s	Pediatric Infectious Disease (E) or (Sub-I)
IDIS 400e**	Clinical Independent Study (E)	PEDS 416e/416s	Pediatric Nephrology (E) or (Sub-I)
IDIS 404e	Bioethics (E)	PEDS 417e/417s	Pediatric Neurology (E) or (Sub-I)
IMED 401e/401s	Allergy/Immunology (E) or (Sub-I)	PEDS 418e/418s	Pediatric Pulmonary Medicine (E) or (Sub-I)
IMED 402e/402s	Addiction Medicine (E) or (Sub-I)	PEDS 419e	Pediatric Rehabilitation (E)
IMED 403e/403s	Cardiology (E) or (Sub-I)	PEDS 420e/420s	Pediatric Rheumatology (E) or (Sub-I)
IMED 404e/404s	Critical Care Medicine (E) or (Sub-I)	PMED 401e	Aerospace/Aviation Medicine (E)
IMED 405e/405s	Dermatology (E) or (Sub-I)	PMED 402e	Environmental Health (E)
IMED 406e	Electrocardiogram Interpretation (E)	PMED 403e	General Preventive Medicine (E)
IMED 407e/407s	Endocrinology/Metabolism (E) or (Sub-I)	PMED 404e/404s	Occupational Medicine (E) or (Sub-I)
IMED 408e/408s	Gastroenterology (E) or (Sub-I)	PMED 405e	Public Health (E)
IMED 409e/409s	General Internal Medicine-Outpatient (E) or (Sub-I)	PSYC 401e/401s	General Psychiatry (E) or (Sub-I)
IMED 411e/411s	Hematology/Oncology (E) or (Sub-I)	PSYC 402e/402s	Pediatric Psychiatry (E) or (Sub-I)

IMED 412e/412s	Hospice/Palliative Care (E) or (Sub-I)	RADI 402e/402s	General Radiology (E) or (Sub-I)
IMED 413e/413s	Infectious Diseases (E) or (Sub-I)	RADI 403e	Interventional Radiology (E)
IMED 414e/414s	Internal Medicine – Hospital/inpatient (E) or (Sub-I)	RADI 404e	Nuclear Medicine (E)
IMED 415e/415s	Medical Genetics (E) or (Sub-I)	RADI 405e	Pediatric Radiology (E)
IMED 416e/416s	Nephrology (E) or (Sub-I)	RADI 406e	Radiation Oncology (E)
IMED 417e/417s	Neurology (E) or (Sub-I)	SURG 401e/401s	Cardiovascular/Thoracic Surgery (E) or (Sub-I)
IMED 418e/418s	Pulmonary Medicine (E) or (Sub-I)	SURG 402e	Colorectal Surgery (E)
IMED 419e/419s	Rheumatology (E) or (Sub-I)	SURG 403e/403s	General Surgery (E) or (Sub-I)
IMED 420e	Sleep Medicine (E)	SURG 404e/404s	Neurosurgery (E) or (Sub-I)
OBGY 401e	General Gynecology (E)	SURG 405e/405s	Ophthalmology (E) or (Sub-I)
OBGY 402e/402s	General Obstetrics (E) or (Sub-I)	SURG 406e/406s	Orthopedic Surgery (E) or (Sub-I)
OBGY 403e/403s	General Obstetrics/Gynecology (E) or (Sub-I)	SURG 407e/407s	Otolaryngology/ENT (E) or (Sub-I)
OBGY 404e/404s	Gynecologic Oncology (E) or (Sub-I)	SURG 408e	Pediatric Surgery (E)
OBGY 405e/405s	Maternal Fetal Medicine/Genetics (E) or (Sub-I)	SURG 409e/409s	Plastic Surgery (E) or (Sub-I)
OBGY 406e	Reproductive Endocrine (E)	SURG 410e	Podiatry/Foot Ankle (E)
OCS 401e/401s	Osteopathic Manipulation (E) or (Sub-I)	SURG 411e	Transplant Medicine (E)
PATH 401e/401s	Anatomic Pathology (E) or (Sub-I)	SURG 412e/412s	Trauma Surgery (E) or (Sub-I)
PATH 402e	Blood Banking (E)	SURG 413e/413s	Urology (E) or (Sub-I)
PATH 403e/403s	Clinical Pathology (E) or (Sub-I)	SURG 414e	Vascular Surgery (E)