

INTERNAL MEDICINE

Contact the Internal Medicine CST Coordinator (<https://catalog.unmc.edu/medicine/curriculum/phase3/career-specialty-tracks/>) with scheduling questions unless a course administrator is specified for a course in the course description.

IMED 715 OUTPATIENT GENERAL MEDICINE CLERKSHIP 4 Credit Hours ELECTIVE

An outpatient general internal medicine experience. Activity Hours/
Week: Rounds - 10, Didactic conferences - 10, Independent learning - 0,
Research project - 0, Independent patient care - 0, Private Office - 10.
Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Instructor: Dr. Osterholm, Dr. Eilts, and Dr. Sheehan

Typically Offered: FALL/SPR

Capacity: 1

IMED 716 INPATIENT-METHODIST 4 Credit Hours ELECTIVE

An outpatient general internal medicine experience. Activity Hours/
Week: Rounds - 12, Didactic conferences - 0, Independent learning - 0,
Research project - 0 Independent patient care - 30. Rotations Offered:
Each 4 weeks.

Prerequisite: Not open to visiting students.

Instructor: Dr. Lewis (Methodist)

Typically Offered: FALL/SPR

Capacity: 1

IMED 717 OMAHA VAMC - CRITICAL CARE MEDICINE 4 Credit Hours SUB-INTERN

A Nebraska faculty intensivist alternates regularly with a Creighton faculty intensivist on the VA CCM team, so depending on the rotation you may not be supervised by a UNMC faculty member. Note: This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital. Objectives: Evaluate and assist in management of patients with acute presentations of common medical problems; describe ventilator changes required for a patient on mechanical ventilation based on ABG interpretation; define the various types of shock and describe their management; categorize the variety of vasoactive medications and their use in clinical situations. This rotation offers opportunity for participation in the management of acutely ill patients, working closely with an ICU supervisory resident, the pulmonary and critical care fellow, and attending physician. Clinical expectations will include primary responsibility for all patients assigned, writing a daily progress note, active participation on rounds, and the option of taking in-house overnight call, with their supervising resident. Learning objectives for this rotation include management of respiratory failure, acute coronary syndrome, acute and chronic renal failure, and hyperglycemia among others. The students will be expected to learn interpretations of chest radiograph and common cardiac dysrhythmias. They will participate in bedside procedures, and they will be expected to be able to evaluate and recognize patients with a variety of life-threatening disorders and participate in their management. The student will be expected to attend any scheduled didactic lectures and engage in self-learning activities to expand their medical knowledge of the evaluation and management of critically ill patients. Honors work will require enthusiasm and initiative, as well as student presentations to the CCM team of clinical topics related to their patients' problems. This ICU rotation is appropriate for a motivated student seeking a moderate intensity of critical care medicine. Contact Chelsea Hug, 402-559-40587 for Attending schedule. Rotations Offered: Each 4 weeks. Site: Omaha VA Medical Center ICU, 2nd floor. Prerequisite: Not open to visiting students.

Instructor: Dr. Craig Piquette

Typically Offered: FALL/SPR

Capacity: 1

IMED 718 TEACHING ASSISTANTSHIP 4 Credit Hours**ELECTIVE**

Each Teaching Assistant (TA) will assist with various teaching and assessment activities taking place in the pre-clinical curriculum. Topics may include but are not limited to history and physical examination, patient interviewing and communication, differential diagnosis, and healthcare systems. Activities associated with these topics include small group facilitation, laboratory activities, assistance with clinical examinations, scoring of student essays, and providing feedback to first- and second-year students about completed assignments. Each TA's involvement will depend on the number of planned activities, the number of participating TAs, and the individual and group schedules. All TAs will be required to complete Student as Teacher online modules during the fall semester and to attend required trainings and debriefings throughout the academic year. Instruction for grading/assessment is provided. More TAs than are required for each event will be enrolled in the course to ensure M4s the flexibility necessary to complete graduation requirements and residency interviewing. However, TA's must be active participants in scheduled activities throughout the year in order to pass the rotation. Course Administration: Ron Bechdolt, 402-559-8689. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Instructor: Dr. Regan Taylor

Typically Offered: FALL/SPR

Capacity: Variable

IMED 720 ADULT CARDIOLOGY 4 Credit Hours**SUB-INTERN**

The student will begin to develop the acumen to obtain a detailed history from cardiac patients focusing on the pertinent aspects of the particular diagnosis or chief complaint as well as other medical diagnoses that either are included in the differential or will have an impact on the evaluation and treatment of the cardiac problem. Specific symptom complexes include but are not limited to: history of chest pain; history suggestive of heart failure; syncope; and cardiac pre-operative evaluation. The student will learn the proper techniques for a detailed cardiac examination to include: complete cardiac examination; examination for valvular diseases; examination for heart failure symptoms. The student will correlate the physical examination in a "bidirectional" manner. The student will learn how the history directs the key points of the physical examination and similarly how the examination aids in coming to the correct diagnosis. The student will understand how to implement guideline-driven care of the cardiac patient. The student will develop and understand the rationale for cost-effective and appropriate testing required to confirm a diagnosis and implement treatment. Acquired Skills: The student will learn and acquire the knowledge base to: perform a cardiac examination; interpret an electrocardiogram; learn how to perform and write-up a good history and physical; learn basic coronary anatomy and the correlation to the ECG in ischemic syndromes; learn the appropriate rationale for ordering tests for the cardiac evaluation. The Cardiology Service: The University service is both a primary and consultative service. It generally consists of a faculty member who rotates in a one-week block. The fellow(s) is/are on the service for the entire month. There are generally 4 internal medicine residents, 1 neurological resident, 1 internal medicine senior student, 2 Family Medicine residents, 1 Anesthesiology resident and two international observers with the exception of July and December on the inpatient service. A nurse coordinator is also part of the team. The team usually meets for pre-rounds in the conference room on the 7th floor of the Clarkson Tower with the fellow on the service. Attending rounds usually follow but may vary depending on the faculty member. All students will have a pager for the month, which will be distributed by the Education Coordinator. Students will generally be assigned no more than 3-4 patients while on the service which they will follow until discharge, or the student rotates off the service. The student should write daily notes on the patient as designated by the fellow on the service who essentially will be the "team leader." Students are expected to attend at least four conferences per month and review assigned articles. ECG review will be scheduled as time permits. Students are not required to round on the weekends but can do so if they choose. Educational Resources: A list of relevant reading resources will be provided by the fellow and Tuwanda Mayberry. Everyone is expected to attend the Monday-Thursday house officer lectures 2-3 PM, list distributed during orientation. Evaluations: The faculty, fellow and residents will evaluate the student by standard process. There is no examination at the end of the rotation. The students will be evaluated on their ability to be a team member and their skills for evaluation and treatment of the patients they follow. Rotations Offered: Each 4 weeks.

Typically Offered: FALL/SPR

Capacity: 1

IMED 720A ADULT CARDIOLOGY - METHODIST 4 Credit Hours**ELECTIVE**

Staff at Nebraska Methodist Hospital will reach out with credentialing requirements. Objectives: Learn the normal ECG as well as common arrhythmias and other abnormalities; learn both invasive and non-invasive diagnostic and treatment strategies for cardiac arrhythmias; learn the indications for cardiac rhythm device implantation; participate in electrophysiologic studies as well as CRM device implantation and left atrial appendage closure; learn both inpatient and outpatient management of cardiac arrhythmias including antiarrhythmic indications, toxicities, and monitoring. The Methodist Hospital Cardiac Electrophysiology Clerkship introduces students to cardiac rhythm device implantation and management, EP studies and ablation of atrial fibrillation, supraventricular Tachycardia, and ventricular tachycardia as well as left atrial appendage closure. The rotations consist of primarily inpatient care with 1-2 days of clinic a week. Students will learn ECG interpretation, antiarrhythmic drug management, as well as have the opportunity to participate in device implantation and invasive EP studies and ablations. Students will learn the acute management of arrhythmia patients as well as long term outpatient care. Opportunities for exposure to general and structural cardiology such as stress testing, echocardiography, percutaneous coronary, and valve procedures, as well as community hospital cardiology are also available as part of the rotation. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: 1

IMED 722 ADVANCED INTERNAL MEDICINE MEYERS' COURSE 4 Credit Hours**ELECTIVE**

In this period of one month, this elective will review basic concepts in Internal Medicine including: 1.5 hours of didactics each day (i.e.- EKG, antibiotic review); Small group cases focusing on diagnostics; Dermatology experience; Pattern recognition case vignettes; Journal Club simulation; Text: Daily readings from the Mayo Board Review Book; Anticipated time requirements: The students start the day at 8 am and typically finish by 1 pm. Anticipate an additional 2 hours of prep time for the next day (i.e., text/journal reading/ completing pattern recognition). Rotations Offered: April and November. November will be via Zoom. Site: UT 5412c

Prerequisite: Not open to visiting students.

Instructor: Dr. David O'Dell and Dr. J. Scott Neumeister

Typically Offered: FALL/SPR

Capacity: 15

IMED 723 DIABETES, ENDOCRINE AND METABOLISM (D.E.M.) 4 Credit Hours**SUB-INTERN**

Each student will have direct management responsibility for care of patients on the Diabetes, Endocrinology and Metabolism Service under the supervision of house officers, Endocrine fellows, and staff. Particular emphasis is placed on the diagnosis and treatment of those endocrine disorders encountered with the greatest frequency in the practice of medicine; specifically, diabetes mellitus and thyroid diseases. Students will have 1 week of inpatient work and 3 weeks of outpatient work. There will be adequate opportunity to acquire a working understanding of the complex diagnostic approaches for other endocrine disorders (adrenal, pituitary, reproductive problems, lipid disorders and osteoporosis). All students will give a 15-minute presentation on an endocrine topic of their choice by the end of the rotation. Rotations Offered: Each 4 weeks. Sites: Diabetes Centers at Bellevue, Bariatrics Clinic, Oakview Medical Center, or Village Pointe Cancer Center. Instructions are sent out individually to students, information will be sent by Carolyn Graham, 402-559-6276, cargraham@unmc.edu.

Instructor: Dr. Mack, Dr. Davis, Dr. Akkireddy, Dr. Puri, Dr. Polavarapu, Dr. Johnson-Rabbett, Dr. Patel, and Dr. Goldner

Typically Offered: FALL/SPR

Capacity: 1

IMED 724 GASTROENTEROLOGY 4 Credit Hours**ELECTIVE**

The Gastroenterology and Hepatology elective emphasizes the correlation of the basic science principles of physiology, pharmacology, and pathologic anatomy to clinical consultative gastroenterology. The Nebraska Medicine location utilizes an inpatient consult service; neither are primary care services. Active student participation in the patient management team, in both ambulatory clinic and hospital settings, is required and will emphasize bedside discussion, as well as attendance at regularly scheduled conferences. Rotations Offered: Each 4 weeks. Prerequisite: Pre-arrangement with Terah Riddle, 402-559-4356 or Mikaela Graham, 402-559-4195. Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: 1

IMED 726 INFECTIOUS DISEASE 4 Credit Hours**SUB-INTERN**

During this rotation students spend time on the general Infectious Disease consult service. On this service they gain practical experience in the evaluation and management of numerous common and unusual infections along with training in the pathogenesis and prevention of infections. One-hour didactic sessions covering a variety of essential ID topics (HIV, immunocompromised host infections, endocarditis, etc.) are presented Monday, Wednesday and Friday. Clinical microbiology education is also included with both lecture and practical lab experience. Students attend the weekly City-wide infectious Disease Care Conference where unusual or interesting ID cases are discussed. Rotations Offered: Each 4 weeks.

Instructor: Dr. Rupp, Dr. VanSchooneveld, Dr. Bares, Dr. Brailita, Dr. Cawcutt, Dr. Cortes-Penfield, Dr. Davis, Dr. Fadul, Dr. Hankins, Dr. Keintz, Dr. Marcelin, Dr. Ryder, and Dr. Starlin

Typically Offered: FALL/SPR

Capacity: 2

IMED 727 RENAL 4 Credit Hours

SUB-INTERN

The nephrology rotation is offered continuously as a four-week rotation at the University of Nebraska Medical Center. Students participate in the evaluation and treatment of inpatients and outpatients with kidney disease, hypertension, and electrolyte/acid-base disorders. Daily inpatient rounds are oriented to bedside teaching and are supplemented by a seminar and lecture series on the range of nephrology topics important for primary care and specialists. Students see patients for initial evaluation and follow-up with the nephrology team. There are at least three scheduled conferences every week. Students will also have experiences with transplant nephrology and outpatient nephrology. By request, students may take a transplant nephrology rotation or as a research rotation under the direction of an individual faculty member. Rotations Offered: Each 4 weeks.

Prerequisite: Pre-arrangement with Mackenzie Dehmer, 402-559-8501.

Instructor: Dr. Troy Plumb, Dr. Marius Florescu, Dr. Jay Hawkins, Dr. Ryan Mullane, Dr. Doug Franz, Dr. Felipe Naranjo, Dr. Prasanth Ravipati, Dr. Jacob Hettenbaugh, Dr. Kathleen Borghoff, Dr. Cliff Miles, Dr. Eric Langewisch, Dr. Scott Westphal, and Dr. Brian Benes

Typically Offered: FALL/SPR

Capacity: 3

IMED 727A RENAL AT NEBRASKA MEDICINE 4 Credit Hours

ELECTIVE

This course is designed to introduce the student to inpatient nephrology, including the fluid and electrolyte abnormalities common in patients with acute renal failure, the clinical situations involved in development of acute renal failure, and the appropriate therapy. Chronic renal failure also will be stressed in the rotation, with everything from drug therapy to hemodialysis and peritoneal dialysis being reviewed. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: 1

IMED 730 MEDICAL ONCOLOGY/HEMATOLOGY 4 Credit Hours

ELECTIVE

To offer a comprehensive experience in the Division of Oncology/Hematology, the course now offers a one-month inpatient and outpatient rotation that emphasizes evaluation and decision-making in these two subspecialty fields. Over the one-month elective there is a two-week rotation on the general oncology inpatient service combined with outpatient clinics and two-week rotation on the Inpatient Hematological Malignancies/Bone Marrow Transplant Service. Areas from which to select include lymphoma, breast cancer, lung cancer, GI, GU, head and neck cancer, non-malignant hematology including coagulation disorders, and CNS/brain cancer. Opportunities to observe and perform special procedures including bone marrow aspiration, bone marrow biopsy, paracentesis and thoracentesis may also occur. Core curriculum subjects are also discussed for 30 minutes before inpatient rounds with residents several times each week. There are also one hour course conferences with the fellows once or twice a week that the student can attend. In addition, students are welcome to attend multiple multidisciplinary oncology case conferences, hematology morphology conferences and various other didactic teaching happening in the section. Students are also assigned tasks and given opportunities for independent learning and presentations. Course Administrator: Norris Richardson, 402-559-5166. Rotations Offered: Each 4 weeks. Site: Buffett Cancer Center, 4th Floor. Instructor: Dr. Abughanimeh, Dr. Bhatt, Dr. Bociek, Dr. D'Angelo, Dr. Ganti, Dr. Grem, Dr. Gundabolu, Dr. Holstein, Dr. Klute, Dr. Krishnamurthy, Dr. Krishnan, Dr. Leuva, Dr. Lunning, Dr. Maness, Dr. Marr, Dr. Nester, Dr. Sharma, Dr. Shonka, Dr. Tenner, Dr. Teply, Dr. Wildes, Dr. Yellala, Dr. Asif, Dr. Haddadin, Dr. Kesireddy, Dr. Muir, and Dr. Vose

Typically Offered: FALL/SPR

Capacity: 1

IMED 733 PULMONARY MEDICINE 4 Credit Hours

ELECTIVE

Objectives: Outline the daily inpatient care of a patient with pulmonary diseases; evaluate and outline management of a patient with COPD exacerbation; outline the work-up of a patient presenting with interstitial lung disease; describe the evaluation and control of asthma. This elective is designed to provide the student with a practical background in Pulmonary Medicine. The students on the service will evaluate hospitalized pulmonary patients with the Pulmonary Consult Team; perform inpatient pulmonary consultations and evaluate patients in the UNMC Pulmonary Clinic. The course includes experience in the management of both simple and complex pulmonary problems, including primary care of cystic fibrosis, pulmonary hypertension and lung transplant patients. The students will review interpretation of chest imaging and pulmonary function tests. Didactic lectures are scheduled at 11:00 a.m. on a broad range of Pulmonary topics. Honors work will require enthusiasm and initiative, as well as student presentations to the Pulmonary Team of at least one clinical topic related to a clinical problem as selected by the student. This pulmonary rotation is appropriate for a motivated student seeking a broad experience in Pulmonary Medicine. Course Administrator: Chelsea Hug, 402-559-4087. Rotations Offered: Each 4 weeks. Site: University Tower (UT) 5216, Respiratory Care Services Conference Room.

Instructor: Dr. Hershberger

Typically Offered: FALL/SPR

Capacity: 2

IMED 734 UNMC CRITICAL CARE MEDICINE 4 Credit Hours

SUB-INTERN

Objectives: Evaluate and assist in management of patients with acute presentations of common medical problems; describe ventilator changes required for patients on mechanical ventilation based on ABG interpretation; define the various types of shock and describe their management; categorize the variety of vasoactive medications and their use in clinical situations. This rotation offers opportunity for management of critically ill patients, working closely with pulmonary and critical care fellows and attending physicians. Clinical expectations will include responsibility for all patients assigned to their care (Expectation of 2 patients per day), writing a student progress note each day on their patients to be cosigned by the attending physician and to actively participate on rounds. Clinical situations encountered on this rotation include management of shock, respiratory failure, renal failure, liver failure, gastrointestinal bleeding, pulmonary embolism and hyperglycemia among others. Students may also have an opportunity to assist in the care of patients with acute stroke, subarachnoid hemorrhage and septic shock. The students will be expected to learn interpretation of chest radiographs and common cardiac dysrhythmias. They will participate in bedside procedures. Students will be expected to be able to evaluate and recognize patients with a variety of life-threatening disorders and participate in their management. There are three Critical Care Medicine teams, each with an attending, a critical care fellow, as well as a mix of residents and physician extenders. Each team provides a different experience and students will be assigned based on availability and student interest. Students will potentially rotate on all three teams. Honors work will require enthusiasm and initiative, as well as student a presentation to the CCM team of a clinical topic chosen by the student. This ICU rotation is appropriate for a motivated student seeking a high level of intensity of exposure to critical care medicine. Rotations Offered: Each 4 weeks. Site: University Tower (UT) 5th Floor, MICU Conference Room.

Instructor: Dr. Hershberger

Typically Offered: FALL/SPR

Capacity: 5

IMED 735 HONORS PROGRAM IN INTERNAL MEDICINE (UNMC OR OVAH) 4 Credit Hours

ELECTIVE

This is a one-on-one comprehensive review of Internal Medicine. Each day the student will meet with the Chief Resident to review pertinent Internal Medicine topics. A typical day would consist of attending and participating in morning report, giving a brief presentation on the morning report topic to the residents, and meeting with the team for informal discussion. Once the Chief finds out the case for the day, the information will be passed on to the student to start to work on the next day's presentation. Additional educational opportunities may include journal articles and presentations to the chief. These topics are at the discretion of the student and the Chief Resident. They will be customized to meet the students' educational objectives. The student will also be responsible for attending morning report, noon conferences, and Grand Rounds. Rotations Offered: Variable.

Prerequisite: Reserved for students who received a grade of Honors in IMED 705. Not open to visiting students.

Instructor: Internal Medicine Chief Residents

Typically Offered: FALL/SPR

Capacity: 1

IMED 736 ALLERGY & IMMUNOLOGY 4 Credit Hours

SUB-INTERN

Allergy and immunology is a unique field in medicine that allows providers to see patients of all ages after receiving training in internal medicine, pediatrics or med-peds and then fellowship in allergy and immunology. During this elective, the student will be exposed to this unique population with a wide array of patients at various clinical locations leading to a very diverse experience in patient care. The student will learn to evaluate, diagnose and treat common allergic diseases such as rhinitis, asthma, eczema and food allergy. These are common complaints for patients and a good foundation of knowledge in treating these diseases becomes quite helpful in all areas of medicine. In addition, the student will become familiar with the assessment and treatment options of other diseases such as urticaria, angioedema, anaphylaxis and occasionally immunodeficiency in addition to many other diseases. During the rotation, the student will be actively engaged in seeing patients in clinic and forming his or her own assessment and treatment plan. The student will be required to attend the weekly Allergy/Immunology didactics on Thursday's morning 8:00am-12:00pm. The lecture from 10:00-11:00am is basic immunology "flipped classroom" which is optional attendance but encouraged. In addition, he or she will present a short lecture to the allergy faculty at the end of the rotation. Evaluation of the student will be provided by all four faculty members. The students will work directly with four faculty members that have differing areas of expertise in allergic diseases at three different clinical sites within Nebraska Medicine. The faculty pride themselves in their ability to provide an environment conducive to learning. To achieve this, Allergy limits the number of learners per one faculty member and one clinic location. Therefore, expect to drive between clinics some days. Faculty are aware that clinics can run long, traffic issues can occur, and learners need time to eat lunch and will be understanding if you are running late. Please send an email to the faculty notifying them that you are running late so they can start seeing patients. Course Administrator: Whitney Dailey, 402-559-4088. Rotations Offered: Each 4 weeks. Sites: Durham Outpatient Center (DOC), Village Pointe (VP), and Bellevue Medical Center (BMC).

Instructor: Dr. Sara May

Typically Offered: FALL/SPR

Capacity: 1

IMED 743 CO-MANAGEMENT MEDICINE 4 Credit Hours

SUB-INTERN

This rotation provides an immersive opportunity for senior medical students to learn the principles of safe and effective perioperative medical care of surgical primary services including neurosurgical, orthopedic, and vascular surgery patients. The student will gain an understanding of pre-operative medicine, perioperative complications, and the impact of medical conditions on rehabilitation. Students will perform preoperative HPs with a focus on risk stratification and care for post-surgical patients on the inpatient units. Lectures covering consultative medicine, perioperative medicine, and hospital medicine topics will be presented and a self-directed e-Learning module will be assigned. Rotations Offered: March - June.

Prerequisite: Not open to visiting students.

Instructor: Dr. Tes Winter, Dr. Nicolle Peterson, Dr. Jason Shiffermiller, and Dr. Trek Langenhan

Typically Offered: SPRING

Capacity: 1

IMED 744 GERIATRIC MEDICINE 4 Credit Hours

SUB-INTERN

In recent years an increasing proportion of health care is occurring in outpatient settings, and the students completing this rotation will have a jump start on the necessary skills to thrive in outpatient care settings during residency. Students will also gain experience in caring for older adults in the inpatient setting by spending designated time on the geriatrics consult service. The medical knowledge conveyed through didactic and clinical experiences focuses on chronic disease management, team care, and health promotion. The faculty teaching and supervising this course are drawn from geriatrics and from hospice and palliative care. The venues of care include Nebraska Medicine outpatient clinics, inpatient care units, and community skilled nursing and rehabilitation facilities. Independent learning will consist of assigned readings, podcasts, and e-modules. Students will enjoy a mix of didactic and experiential activities in pursuit of the following six global educational goals: increase your knowledge and skills in managing medical problems that are especially prevalent among older patients (dementia, delirium, diastolic heart failure, osteoporosis, unexplained weight loss, adult failure to thrive, etc.); improve your ability, when given clinical and psychosocial data for older persons, to develop a synthesized, integrated assessment (on some rotations you learn methods of analysis; in geriatric medicine, the challenge is often one of synthesis); improve your ability to prioritize the various complaints and concerns of complex older patients; improve your ability to assess patients' function and develop care plans to improve it (as a side benefit, you will learn why self-care function is so important in this population); learn how to incorporate older patients' limited life expectancy into collaborative decision-making with patients and families; increase your knowledge of the capabilities of various care venues (assisted living, nursing facilities, acute rehabilitation hospitals, etc.) and non-MD health disciplines. Scheduling is flexible and accommodating to residency interviews and other activities. Course Administrator: Travis Weyant, tweyant@unmc.edu. Rotations Offered: Each 4 weeks
Typically Offered: FALL/SPR
Capacity: 2

IMED 746 WOMEN'S HEALTH 4 Credit Hours

ELECTIVE

This elective was established for students with a strong interest in developing an additional expertise in health issues uniquely affecting women and presenting differently in women. The student will work one on one with faculty with expertise in Women's Health at UNMC. These experiences include general internal medicine, genetic counseling, urogynecology, and pelvic physical therapy. Students will learn to manage mental health disorders common in women, menstrual dysfunction, menopausal symptoms, osteoporosis, and understand gender differences in disease presentation. Discussions on women's health topics will be provided during the month by participating faculty, along with a directed reading plan. The student will also be encouraged to attend scheduled lectures and conferences in Internal Medicine or OB/GYN as their clinical schedule allows. Rotations Offered: Each 4 weeks, except December.
Instructor: Dr. Bonnema, Dr. Boerner, and Dr. Taylor
Typically Offered: FALL/SPR
Capacity: 2

IMED 749 FIELD EPIDEMIOLOGY AT CEDAR POINT 4 Credit Hours

ELECTIVE

Practicing evidence-based medicine requires familiarity with the basic principles of epidemiology. This three-week summer course allows students to develop a background in these principles, using as its classroom the prairies, ponds, and fields of western Nebraska. Students engage in observation and experimentation while enjoying the beautiful natural setting of UNL's Cedar Point Biological Field Station, located near Ogallala and Lake McConaughy. Collecting trips, laboratory experiments and a group project offer unique, out-of-the-classroom learning opportunities. Visit <http://darwin.unmc.edu/fieldepi> for more information about this course and the facilities at Cedar Point. Students will need to obtain a copy of the required text (Epidemiology by Leon Gordis, fourth or fifth editions) prior to the rotation. Students will develop an understanding of the epidemiological and bio statistical principles traditionally taught in an introductory-level epidemiology course. Students will develop skills in collection, dissection, and laboratory experimentation. Students will develop an understanding of how classroom principles can be translated into real-world observation and experimentation. Instructional methods will include lecture, independent reading, field collection and observation trips and laboratory experiments. Computer-based methods may be included as well. Structured class time occurs Monday through Friday. Over the time period, roughly one-third of class time will be spent in lecture format and two-thirds in field/lab exercises. Evening reading assignments will be provided for most days. Student performance will be assessed using daily quizzes over assigned reading, class/lab participation and a final group project. Rotations Offered: Variable.
Prerequisite: Pre-arrangement with Dr. Devin Nickol, dnickol@unmc.edu. Not open to visiting students.
Instructor: Dr. Devin Nickol
Typically Offered: FALL/SPR
Capacity: Variable

IMED 751 RHEUMATOLOGY 4 Credit Hours

SUB-INTERN

This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital. This is primarily an outpatient rotation, but students will also participate in the inpatient consult educational activities. There are no student call requirements. Students will see patients in faculty ambulatory clinics at UNMC and the VA Hospital's Ambulatory Care Clinic. Our educational focus is on the diagnosis and management of rheumatic disease in a diverse mix of adult patients. Common diseases encountered are rheumatoid arthritis, osteoarthritis, lupus, myositis, scleroderma, gout and vasculitis. Students are required to participate in didactic lectures and case conferences. Course Administrator: Karla Mace, 402-559-7792. Rotations Offered: Each 4 weeks.
Prerequisite: Not open to visiting students.
Instructor: Dr. James O'Dell, Dr. Ted Mikuls, Dr. Amy Cannella, Dr. Alan Erickson, Dr. Tina Mahajan, Dr. Bryant England, Dr. Marcus Snow, Dr. Mike Feely, Dr. Jennifer Medlin, Dr. Lindsay Helget, Dr. Kaitlyn Brittan, Dr. Geoffrey Thiele, Dr. Tate Johnson, and Dr. Kaleb Michaud
Typically Offered: FALL/SPR
Capacity: 2

IMED 756 INDEPENDENT STUDY IN MEDICAL FAMILY THERAPY 3 Credit Hours

This course serves as an independent study for students enrolled in Medical Family Therapy courses. Students will focus on a Medical Family Therapy-related topic to study in depth and will develop papers and presentations surrounding their chosen topic of interest.
Prerequisite: IMED 752

IMED 760 AWAY INTERNAL MEDICINE ELECTIVE 4 Credit Hours
ELECTIVE

Clerkships in universities or teaching hospitals elsewhere sponsored by a member of the Department of Internal Medicine and in which the instructor directing the elective is not a member of our faculty. Appropriate away electives are those providing opportunities in areas in which we have no comparable programs or in which the university cannot accommodate the number of students desiring the course.

Prerequisite: Pre-arrangement with the Internal Medicine CST Director and an approved application for an away elective. Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable

IMED 762 PRECEPTORSHIP 4 Credit Hours

SUB-INTERN

Options include but are not limited to Cardiology at Methodist and Gastroenterology at Midwest Gastroenterology. Rotations Offered: Each 4 weeks.

Prerequisite: Pre-arrangement with the Internal Medicine CST Director.

Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable

IMED 763 VA EMERGENCY MEDICINE 4 Credit Hours

ELECTIVE

This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital. Patients are assigned to students and residents on a rotational basis according to when they arrive in the department. Patients will be a mix of ambulatory patients, ambulance arrivals and clearance of both the acute psychiatric patient and the patient wishing to undergo substance abuse treatment. There will be a wide variety of medical conditions seen including acute cardiac, pulmonary, gastrointestinal, neurological, and infectious disease. There will also be potential for many procedures including ABG's, arthrocentesis, paracentesis, thoracentesis, and central lines. Rotations Offered: Each 4 weeks.

Prerequisite: Pre-arrangement with Dr. Scott Menolascino, scott.menolascino@va.gov. Not open to visiting students.

Instructor: Dr. Scott Menolascino

Typically Offered: FALL/SPR

Capacity: Variable

IMED 766 GENERAL MEDICINE INPATIENT SUB-INTERNSHIP 4 Credit Hours

SUB-INTERN

This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital. Spots are extremely limited from April-November because they are reserved for students enrolled in the Primary Care Program. This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 4-8 general medicine patients, 3-4 patients daily. The student will admit, evaluate, manage and discharge typical medicine patients, all supervised directly by a senior medical resident and an attending physician. Admissions to the sub intern will be limited and the student will be expected to take 4-5 nights of in-house call during the month with the senior resident. Rotations Offered: Each 4 weeks. Site: Omaha VA Hospital.

Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: 3

IMED 766A GENERAL MEDICINE INTERNSHIP SUB-INTERNSHIP - UNMC 4 Credit Hours

SUB-INTERN

Meyer Teams - Faculty Oversight: UNMC Internal Medicine Chief Resident and Dr. Trek Langenhan; UNMC Internal Medicine Faculty. This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 3-5 general medicine inpatients while being an integral part of the internal medicine resident wards team. The student will admit, evaluate, manage, and discharge typical medicine inpatients, all supervised directly by a senior medical resident and an attending physician (generally 2-3 total faculty per month). Students will be assigned approximately 3 nights of overnight in-house call during the rotation. The rotation also provides the opportunity to provide guidance and teaching to M3 clerkship students. The student will also be responsible for attending morning report, team teaching rounds, noon conferences, and grand rounds during the time of the rotation. Tower-Based Teams - Faculty Oversight: Dr. Chelsea Navarrette, UNMC Internal Medicine Chief Resident and Dr. Trek Langenhan; UNMC Internal Medicine Faculty. This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 3-5 general medicine inpatients while directly working 1:1 with an attending hospitalist physician (generally 4-5 total faculty per month). The student will admit, evaluate, manage, and discharge typical medicine inpatients, all supervised directly by an attending physician. Students will generally be assigned 4 nights of consecutive overnight in-house call during the rotation. The student will also be responsible for attending teaching rounds, multidisciplinary rounds, noon conferences, and grand rounds during the time of the rotation. Rotations Offered: Each 4 weeks, some months may not be available for Tower-Based Teams.

Typically Offered: FALL/SPR

Capacity: 8

IMED 767 AMBULATORY SUB-INTERNSHIP 4 Credit Hours

SUB-INTERN

Internal Medicine - Faculty: Dr. Rae Witt and Internal Medicine Faculty and Staff. Sites: Locations vary between DOC, Brentwood, Village Pointe, and Eagle Run; information will be sent out via email prior to the start of the rotation. This rotation will give senior medical students the opportunity to assume increased responsibility and autonomy in the care of patients in the general internal medicine ambulatory setting compared to the Phase 2 experience. Each student will be paired with 1-2 clinical preceptors throughout the rotation and will be expected to attend 6-7 half-days of clinic per week with a possible extra half day each week dedicated to extracurricular ambulatory experiences. Students will provide acute and chronic care, pre-operative care, preventive care, and follow-up care to 2-4 patients per clinic session. Students will have progressive responsibility throughout the month. Med-Pediatrics - Faculty: Drs. Rachel Johnson, Daniel Jeffrey, Sarah Smith, Jennifer Parker, Eamon Maloney, Hilary Johnson, Amber Keebler, Joe Pachunka and Med-Peds Faculty and Staff. Site: Fontenelle Clinic. This rotation is designed for those students planning to pursue Med-Peds for residency. This rotation gives senior medical students the opportunity to assume more responsibility and autonomy in the care of patients in the general internal medicine and pediatric ambulatory setting. Each student will rotate with multiple med-peds and pediatric clinical preceptors at the Nebraska Medicine Fontenelle Clinic and Elkhorn clinic. The student will be expected to attend 6-7 half-days of clinic per week with a possible extra half day each week dedicated to extracurricular ambulatory experiences. Students will have the opportunity to learn and practice acute and chronic care management and preventative care for both adult and pediatric patients. They will see patients, write notes, and make follow-up calls under staff guidance pertinent to their patient. Students also are asked to do a 30-45min presentation at the end of the rotation regarding a Med-Peds ambulatory topic of their choosing. Rotations Offered: Each 4 weeks. Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: 2

IMED 798 INTERNAL MEDICINE RESEARCH ELECTIVE IN INFECTIOUS DISEASES 4 Credit Hours

ELECTIVE

This elective offers students the opportunity to work with faculty members in the Division of Infectious Diseases on a range of research projects. There are numerous projects available in the areas of HIV/AIDS, Transplant ID, Oncology ID, Antimicrobial Stewardship, Healthcare Epidemiology, Orthopedic ID, Microbiology, and many other areas. Any infectious disease related project will be considered under the direction of an ID staff physician. Students interested in this rotation must contact and have the approval of an ID faculty member who will serve as a mentor. Students are required to document research contact information, project, etc. in Oasis. Course Administrator: Dr. Trevor Van Schooneveld, tvanscho@unmc.edu. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Instructor: Dr. Rupp, Dr. Swindells, Dr. Kalil, Dr. Freifeld, Dr. A. Hewlett, Dr. Van Schooneveld, Dr. D. Florescu, Dr. Bares, Dr. Zimmer, Dr. Cawcutt, and Dr. Ashraf

Typically Offered: FALL/SPR

Capacity: Variable

IMED 799 RESEARCH IN MEDICINE 4-6 Credit Hours

ELECTIVE

This elective offers students the opportunity to work with faculty members in the Department of Internal Medicine. Students interested in this rotation must contact and have the approval of an IMED faculty member who will serve as a mentor. Students are required to document research contact information, project, etc. in Oasis. Rotations Offered: Each 4 weeks.

Prerequisite: Not open to visiting students.

Typically Offered: FALL/SPR

Capacity: Variable