



**UNIVERSITY OF NEBRASKA
MEDICAL CENTER
COLLEGE OF MEDICINE**

SENIOR ELECTIVE HANDBOOK

CLASS OF 2023

2022-2023 ACADEMIC YEAR

DECEMBER 2022

Office of Admissions and Student Affairs

University of Nebraska Medical Center
College of Medicine

SENIOR ELECTIVE HANDBOOK
2022 - 2023

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Web Address: <https://www.unmc.edu/com/education/curriculum/phase-3/about-senior-courses/index.html>

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University of Nebraska College of Medicine
2022-2023 Academic Year

SEMESTERS

First Semester (Class of 2026)	August 22, 2022 – December 16, 2022
First Semester (Class of 2025)	August 22, 2022 – December 16, 2022
First Semester (Class of 2024, 2023)	July 5, 2022 – December 16, 2022
Second Semester (Class of 2026)	January 3, 2023 – May 26, 2023
Second Semester (Class of 2025)	January 9, 2023 – July 1, 2023
Second Semester (Class of 2024)	January 2, 2023 – June 23, 2023
Second Semester (Class of 2023)	January 2, 2023 – April 30, 2023

RECESSES AND HOLIDAYS

Summer Break (Class of 2023)	June 25, 2022 – July 5, 2022
Independence Day	July 4, 2022 (Monday)
Labor Day	September 5, 2022 (Monday)
Fall Break (Class of 2024)	September 17, 2022 – September 25, 2022
Thanksgiving (M1 - M4)	November 24, 2022 – November 25, 2022
Winter Recess (Class of 2026,2024,2023)	December 17, 2022 – January 2, 2023
Winter Recess (Class of 2025)	December 17, 2022 – January 8, 2023
New Year's Day (Holiday)	January 1, 2023 (Sunday)
Martin Luther King, Jr.	January 16, 2023 (Monday)
Spring Recess (Class of 2026)	March 4, 2023 – March 12, 2023
Spring Recess (Class of 2025)	March 11, 2023 – March 19, 2023
Spring Recess (Class of 2024, 2023)	March 25, 2023 – April 2, 2023
Memorial Day	May 29, 2023 (Monday)
Summer Break (Class of 2026)	May 27, 2023 – August 20, 2023
Summer Break (Class of 2024)	June 24, 2023 – July 2, 2023
Independence Day	July 4, 2023 (Tuesday)

SPECIAL EVENTS

Acute Care Block (Class of 2024 requirement)	February 28, 2022 – April 3, 2022
First Year Orientation (Mandatory Class of 2026)	August 15, 2022 – August 19, 2022
Interprofessional Education Event #1 (Class of 2026)	August 17, 2022
White Coat Ceremony (Class of 2026)	August 19, 2022 (Friday)
FIRST DAY OF CLASS (Class of 2025, 2026)	August 22, 2022 (Monday)
Interprofessional Education Event #2 (Class of 2026)	February 8, 2023
Interprofessional Education Event (Class of 2025)	February 22, 2023
Honors Convocation (Class of 2023)	May 5, 2023 (Friday)
Commencement (Class of 2023)	May 6, 2023 (Saturday)

Class of 2024 Phase 3

4 Week Rotations:

April 2023	April 3, 2023 – April 30, 2023
May 2023	May 1, 2023 – May 28, 2023
June 2023	May 30, 2023 – June 23, 2023 (Memorial Day May 29)
SUMMER BREAK	JUNE 24, 2023 – JULY 2, 2023

Class of 2023 Phase 3

4 Week Rotations:

July 2022	July 5, 2022 – July 31, 2022
August 2022	August 1, 2022 – August 28, 2022
September 2022	August 29, 2022 – September 25, 2022 (Labor Day Sept 5)
October 2022	September 26, 2022 – October 23, 2022
November 2022	October 24, 2022 – November 20, 2022
December 2022	November 21, 2022 – December 16, 2022 (Thanksgiving Nov 24 & 25)
WINTER BREAK	DECEMBER 17, 2022 – JANUARY 1, 2023 (New Year's Day January 1)
January 2023	January 2, 2023 – January 29, 2023 (MLK January 16)
February 2023	January 30, 2023 – February 26, 2023
March 2023	February 27, 2023 – March 24, 2023
SPRING BREAK	MARCH 25, 2023 – APRIL 2, 2023
CAPSTONE EXPERIENCE	April 3, 2023 – April 30, 2023
HONORS CONVOCATION	MAY 5, 2023
GRADUATION	MAY 6, 2023

Office of Admissions & Student Affairs (10/11/2021)

CAREER SPECIALTY DIRECTORS

Anesthesia	Brittany Brown, M.D.	brittany.brown@unmc.edu	402-559-4081
Dermatology	Megan Arthur, M.D.	megan.arthur@unmc.edu	402-559-8634
Emergency Medicine	Amy Cutright, M.D.	amy.cutright@unmc.edu	402-559-9301
Family Medicine	Susan Evans, M.D.	susan.evans@unmc.edu	402-559-6499
Internal Medicine	Rae Witt, M.D.	rae.witt@unmc.edu	402-559-3310
	Jill Zabih, M.D.	jill.zabih@unmc.edu	402-559-6605
Med-Peds	Allison Ashford, M.D.	allison.ashford@unmc.edu	402-559-8112
Neurology	Arun Swaminathan, M.D.	arun.swaminathan@unmc.edu	402-552-6172
Neurosurgery	Dan Surdell, M.D.	dsurdell@unmc.edu	402-559-9611
Obstetrics and Gynecology	Tricia Fredericks, M.D.	tricia.fredericks@unmc.edu	402-559-8133
Ophthalmology	Shannon Lynch, M.D.	slynch@unmc.edu	402-559-1859
Oral Surgery (DDS)	Valmont Desa, M.D.	vdesa@unmc.edu	402-559-6445
Orthopaedics	Justin Siebler, M.D.	jsiebler@unmc.edu	402-559-8551
Otolaryngology	Katie Geelan-Hansen, M.D.	katie.geelanhansen@unmc.edu	402-559-8007
Pathology and Microbiology	Geoffrey Talmon, M.D.	gtalmon@unmc.edu	402-552-4793
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	Aleisha Nabower, M.D.	aleisha.nabower@unmc.edu	402-955-4496
	Chelsea Bloom, M.D.	cpbloom@unmc.edu	402-955-5151
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Psychiatry	Dana Raml, M.D.	dana.bell@unmc.edu	402-552-6007
	Sharon Hammer, M.D.	sjhammer@unmc.edu	402-552-6007
Radiology	Lyudmila (Lucy) Muinov, M.D.	lmuinov@unmc.edu	402-559-2975
Radiation Oncology	Nathan Bennion, M.D.	nathan.bennion@unmc.edu	402-552-3844
Surgery	Olabisi Sheppard, M.D.	olabisi.sheppard@unmc.edu	402-559-8884
Urology	Chad LaGrange, M.D.	clagrang@unmc.edu	402-559-4292

DEPARTMENT COORDINATOR CONTACTS

Anesthesia	Patricia Anderson:	patricia.anderson@unmc.edu	402-559-4175
Dermatology	Tammy O'Donnell	tammy.odonnell@unmc.edu	402-559-4306
Emergency Medicine	Heather Noyes:	heather.noyes@unmc.edu	402-559-2571
Family Medicine	Elizabeth Morris:	emorris@unmc.edu	402-559-7064
Internal Medicine and Med-Peds	Jill McIntosh-Carnes	jill.mcintoshcarnes@unmc.edu	402-559-6422
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Ophthalmology	Arianne Marcoux	arianne.marcoux@unmc.edu	402-559-1859
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Pathology and Microbiology	Anna Nordhagen	anna.nordhagen@unmc.edu	402-559-7212
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Physical Medicine and Rehabilitation	Kayla Zaloudek	kayla.zaloudek@unmc.edu	402-836-9288
Psychiatry	Kevin MacCarthy	kevin.maccarthy@unmc.edu	402-552-9691
Radiology	Tina Hunter	thunter@unmc.edu	402-559-1018
Radiation Oncology	Jeanne Badura	jbadura@unmc.edu	402-559-3810
Surgery	Beverly Vaughn	bvaughn1@unmc.edu	402-559-4718
Global Engagement	Sara Pirtle	sepirtle@unmc.edu	402-559-2924

INFORMATION FOR VISITING STUDENTS

Requests for elective time at the University of Nebraska Medical Center College of Medicine/Nebraska Medicine from students attending U.S. medical schools or osteopathic schools are done through VSLO (Visiting Student Learning Opportunities). There is a maximum of 1 (one) rotation per applicant. Please limit requests to no more than 3 (three) options for review. If those options are denied you may then submit more options (3) for consideration.

Do not contact any faculty or clinical department prior to your acceptance for a rotation. Doing so is considered a professionalism breach and may disqualify you from doing rotations at UNMC. Applications will be reviewed by merit beginning April 1, 2022 with decisions BEGINNING May 1, 2022. UNMC offers rotations each month of the academic year July - June.

Applicants will be expected to adhere to the date schedule as prescribed by UNMC and be able to attend all 4 weeks of any given rotation.

Only complete applications will be reviewed for consideration. An opportunity to correct an application may be offered. A complete application consists of the following:

- Currently in the 4th/Final year of M.D. /D.O program
- Verification page on VSAS completed by the Home School
- Student is in Good Standing (listed on Verification page)
- Current OSHA training (listed on Verification page)
- Current BLS (listed on Verification page)
- Mask Fit test completed (listed on Verification page)
- Medical Liability in the amounts of \$3M Aggregate and \$1M Per Instance (listed on Verification page)
- Completion of the following Core Clerkships before the start of any requested elective (listed on Verification page)
 - Family Medicine
 - Internal Medicine
 - Obstetrics and Gynecology
 - Pediatrics
 - Psychiatry
 - Surgery
- Current HIPAA training (listed on Verification page)
- Passed USMLE Step 1/COMLEX (listed on Verification page)
- Immunizations uploaded
- Verification of COVID full vaccination
- State and Federal Background check uploaded
- CV uploaded
- Photograph uploaded
- Transcript uploaded
- Any additional documentation required by any given department as listed below:

The University of Nebraska Medical Center additional documentation required for VSLO applications: (See VSLO for any updates to this list)

UNMC requires a background check uploaded for each applicant.
The following departments require additional documents:

Anesthesiology:	Step 1 score or COMLEX List of previous electives taken in this area <u>Brief</u> statement about why UNMC
Emergency Medicine:	Step 1 or COMLEX score <u>Brief</u> statement of interest in area
Internal Medicine:	Step 1 or COMLEX <u>Brief</u> statement about why UNMC Step 2 score (if available)
Neurosurgery:	Step 1 score Step 2 score (if available)
Obstetrics and Gynecology:	Step 1 score <u>Brief</u> statement about why UNMC
Ophthalmology:	Step 1 score Step 2 score (if available) <u>Brief</u> statement about why UNMC
Orthopaedic Surgery:	Step 1 score
Otolaryngology:	Step 1 score <u>Brief</u> statement about why UNMC
Path. & Microbiology:	Course 799 requires a preference sheet DO NOT CONTACT DEPT OR FACULTY (see course description for details)
Radiation Therapy:	List of previous electives taken in this area
Surgery:	Step 1 score Step 2 score (if available)

Elective rotations are four weeks in length.

We do not offer any two week elective experiences.

The student must be at the **senior/final** level of medical school at the time of the proposed elective.

Visiting students are not accepted into third year junior clerkships.

The University of Nebraska College of Medicine does not accept application for electives from students attending foreign medical schools and non-LCME accredited M.D. institutions or non-COCA accredited D.O institutions.

To attend a non-credit experience, please contact the Office of Global Engagement at 402-559-4517 or global@unmc.edu or visit their website at <http://www.unmc.edu/global>.

DEPARTMENTAL DESCRIPTIONS

All courses in this catalog are 4 credits and meet the defined criteria of a 4 credit course as listed in below:

One credit hour is equivalent to one hour (50 minutes minimum) of lecture and two (2) hours of out-of-class work each week. For all standard 15-week semesters of instruction, and for non-standard (condensed) and online courses the following contact times (minimums) are assigned for every one (1) credit hour based upon the specific type of learning activity:

- Synchronous Classroom: 1 hour of contact time and 2 hours of out-of-class work for each week of instruction
- Laboratory: 2-4 hours of contact time for each week of instruction
- Research/Field Work: 2-4 hours of contact time for each week of instruction
- Clinical: 2-4 hours of contact time for each week of instruction
- Simulation: 2-4 hours of contact time for each week of instruction
- Other Activities: 3 hours of contact time (Exam time can be considered part of contact time if an instructor chooses to count time spent on assessment as part of contact time)
- Asynchronous Education (i.e. Online or Distance Learning): 3 hours of student work for each week. Student work includes reading, research, online discussion, instruction, and assigned group activities, preparation of papers or presentations.

The Curriculum Committee of each College approves the number of credit hours for all courses, regardless of mode of delivery. The determination/assignment of credit hours should reflect the educational content of the course and the time required for a typical student to achieve the College's desired outcomes.

ANESTHESIOLOGY

Chair – Steven Lisco, M.D.
Director of Medical Student Education – Brittany Brown, M.D.
Curriculum Clerk/Coordinator – Patricia Anderson
2015 Bennett Hall
402-559-4175

****ANES-720 Anesthesia Rotation
 Dr. Brittany Brown**

Periods Offered: Each four weeks except June
Student Limit: July-4 students; all other months 5 students – University Hospital or VA
**Where to Report: All students will be notified via e-mail one week prior to orientation of
 starting time and place of rotation.**

Contact Person: Patricia Anderson (402-559-4175)

The intention of this rotation is to provide a broad exposure to the field of anesthesiology. This rotation is for students both interested in pursuing a career in anesthesiology and those students who are interested in learning basic anesthesia concepts and knowing more about the interdisciplinary aspects of our specialty. Students will be given an opportunity to participate in the care of patients undergoing a variety of surgical procedures. Students will be involved from the Pre Anesthesia Screening Clinic to the Post Anesthesia Care Unit/Intensive Care Unit with an emphasis on anesthetic management throughout this time frame. They will also gain exposure to anesthesia subspecialties by choosing two one-week blocks in Acute Pain, Cardiac Anesthesia, Obstetrical Anesthesia, Pediatric Anesthesia, Transplant Anesthesia or Neuro Anesthesia. This diverse experience will give the student an opportunity to learn about the perioperative clinical considerations of the patient, as well as provide them with hands-on technical skills. The student will engage in many procedures including airway management, peripheral nerve blockade, neuraxial anesthesia, arterial and venous access, and transesophageal echocardiography. Other notable concepts addressed will be physiology, pharmacology, fluid management, and pain control as pertaining to anesthesia and beyond. Our rotation also utilizes the simulation lab to teach clinical and procedural skills.

Activity	Hours/Week
Rounds	2
Didactic conferences	3
Independent learning	10
Research project	1
Independent patient care	0
OR case supervision	40

****ANES-725 Critical Care Anesthesiology**
Dr. Amanda Arnzen
Periods Offered: Each four weeks except for July
Student Limit: 2
Contact Person: Patricia Anderson (402-559-4175)

Course Objectives Critical Care Anesthesiology provides an opportunity to collaborate with a multi-disciplinary team led by Anesthesiology-Intensivists to provide cutting edge, patient centered medical therapy to complex, critically ill patients. Learn to navigate the intricacies of multi-organ system dysfunction, sepsis, post-operative cardiac, thoracic and surgical oncology patients, as well as mechanical cardiopulmonary support. Engage in discussions of medical ethics, end of life issues, as well as analyze interpersonal and family dynamics in a high acuity environment. This four week rotation is ideal for those medical students interested in anesthesiology, critical care medicine, internal medicine, cardiology, or surgery, or for students seeking a high-intensity educational exposure to the physiology and pathophysiology of the cardiovascular, respiratory, renal and other major organ systems. The rotation will focus its curriculum on critical care topics with related reading scheduled lectures and bedside instruction of procedures such as central line catheter placement, arterial line insertion, intubation, echocardiography and head-to-toe critical care ultrasonography. Multidisciplinary academic rounds will take place daily, with scheduled lectures occurring three days per week on predesignated topics delivered during lunch by Critical Care Anesthesiology faculty.

ANES-734 Pain Management
Dr. Marshall Ladd, Dr. Michael Lankhorst
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: All students will be notified via campus mail or e-mail one week prior to orientation of starting time and place of rotation.
Contact Person: Patricia Anderson (402-559-4175)

This course is NOT available to visiting students.

During this one month rotation the student will spend the majority of their time seeing patients at one of our clinic locations. These locations include Village Point, the UNMC main campus or Bellevue Medical Center. The student will become familiar with the treatment of chronic non-malignant pain and cancer pain. The student may participate in consultation within the hospital as well as the various interventional procedures that are done in the OR to treat pain. They will also spend time with the staff of our behavioral pain program.

Activity	Hours/Week
Rounds	5
Didactic conferences	0
Independent learning	5
Research project	0
Case supervision	25-50
Patient evaluations	50-100

ANES-760 **Off-Campus Anesthesia Elective**
Periods offered: **Each four weeks**
Student Limit: **By Arrangement**
Prerequisite: **Must be arranged with Anesthesiology Coordinator and Dr. Brown**
Contact Person: **Patricia Anderson (402-559-4175)**

This course is NOT available to visiting students.

Arrangements in other medical centers can be made for extraordinary learning experiences not readily available within our facilities. Department of Anesthesiology faculty will be pleased to work with the student interested in an extramural clerkship when credit for this clerkship is desired. All arrangements for this off-campus elective and all correspondence are the responsibility of the student requesting this elective. Off-campus elective application forms must be submitted in VSAS (Visiting Student Application Services). Student MUST inform the student clerkship coordinator of their application. (See off-campus elective application procedures).

ANES-763 **International Health**
Dr. Kyle Johnson and Dr. Megan Chacon
Periods offered: **Annually each February**
Student Limit: **6**
Prerequisite: **Must be arranged with Anesthesiology Coordinator and Sarah Pirtle**
(Global Engagement)
Contact Person: **Patricia Anderson (402-559-4175)**

This course is NOT available to visiting students.

This course is intended for senior medical students interested in experiencing global health care in rural settings, and will currently take place in rural Rwanda, Africa. Gitwe Hospital is a 200 bed District Hospital in Rwanda serving eight Health Centers in the Ruhango District. Opportunities exist for students to participate in multiple primary care settings as well as gain exposure to obstetric care. Interested students will spend three weeks working with community physicians as well as academic physicians affiliated with the University of Gitwe. Currently, the rotation will be offered twice per year. Ideally, students participating in the rotation will have a desire to integrate international healthcare into their career, and our primary goal is to encourage students on that path. The student will need to plan ahead for this rotation, as there are things to be accomplished before the rotation and the plane fare alone is expensive. Please contact the department for further information regarding this rotation.

ANES-798 **Anesthesiology Research**
Periods offered: **Each four weeks**
Student Limit: **2**
Prerequisite: **Must be arranged with Anesthesiology Coordinator**
Contact Person: **Patricia Anderson (402-559-4175)**

This course is NOT available to visiting students.

This course is designed to enhance the student's clinical research knowledge with an emphasis on anesthesiology or critical care. The student will gain knowledge, including good clinical practice, regulatory requirements, research study designs, and data collection standard. Students will be required to have CITI training and will be added to the IRB application associated with the research project in which they are allocated to assist. The student will receive a grade based on the established performance rubric and faculty evaluation.

****ANES-799 Advanced Anesthesiology**
Prerequisite: ANES-720 Anesthesia
Periods offered: August - March
Student Limit: 2
Prerequisite: ANES 720
Contact Person: Patricia Anderson (402-559-4175)

This course is NOT available to visiting students.

This is an opportunity to select specific areas of interest within the field of anesthesia to focus on and delve into further. The student will spend four one-week blocks in any of several specialized areas, such as neuro-anesthesia, cardiovascular anesthesia, thoracic anesthesia, pediatric anesthesia, transplant anesthesia, obstetrical anesthesia, or acute pain management (regional anesthesia). Generally, the student will select rotations on which they prefer to spend time in and will closely follow faculty and residents for a week at a time on each of the chosen rotations.

DERMATOLOGY

Chair: Ashley Wysong, M.D.

M4 Student Director: Megan Arthur, M.D.

Education Programs Coordinator: Tammy O'Donnell

LOC 4.14.060, 402-559-4306

****DERM-714 Advanced Clinical Dermatology**

Periods Offered: August – October, April –June

Student Limit: 2-3

Faculty Contact: Dr. Megan Arthur

Contact Person: Tammy O'Donnell, 402-559-4306

This four-week elective in Advanced Clinical Dermatology is for students who are pursuing a career in Dermatology. This rotation offers students a comprehensive dermatology experience. Students can expect exposure to general dermatology, dermatologic surgery, dermatopathology, pediatric dermatology, and inpatient dermatology consultative services. Students will learn to diagnose and treat common dermatologic conditions (i.e. acne, seborrheic dermatitis, atopic dermatitis, psoriasis, warts). They will become comfortable performing a complete skin examination, identifying worrisome lesions that require intervention and providing counseling to patients on warning signs of skin cancer and sun protective behaviors. Lastly, they will become familiar with the wide range of dermatologic procedures that can be performed, including cryotherapy, shave biopsy, punch biopsy, excision and MOHS micrographic surgery. This course fulfills the sub-internship requirement.

Activity	Hours/Week
Rounds	4
Didactic conferences	1
Independent learning	2
Research project	0
Independent patient care	35

DERM-720 Clinical Dermatology

Periods Offered: January - March

Student Limit: 1

Contact Person: Tammy O'Donnell, 402-559-4306

This course is NOT available to visiting students

This elective is for students who are not pursuing a career in dermatology but who have interest in gaining exposure to this field of medicine. During the four-week clinical dermatology elective, medical students will become familiar with common inflammatory, autoimmune, and neoplastic dermatologic disorders of the skin. Each student will participate in the diagnosis and treatment of a wide variety of skin conditions. Students will learn how to determine when it is appropriate to refer a patient to dermatologists. They will also become familiar with common dermatologic procedures including shave biopsy, punch biopsy, cryotherapy, and excision.

****DERM-764 Off-Campus Dermatology Clerkship**
Periods Offered: Each four weeks
Student Limit: By arrangement (Approval from Dr. Megan Arthur)
Contact Person: Tammy O'Donnell, 402-559-4306

This course is NOT available to visiting students

This course is intended for students who are interested in pursuing a career in Dermatology. Students who plan to pursue a career in the field of Dermatology are eligible to apply for an Off-Campus Dermatology Elective. Off-Campus electives should occur at Universities or Teaching Hospitals. This rotation should serve to further enrich the student's experiences within the field of Dermatology and assist in solidifying their desire to pursue this area of medicine. The course fulfills the sub-internship requirement.

An Off-Campus Elective Application form must be submitted for this experience. (See Off-Campus Elective Application procedures).

****DERM-790 Dermatology Research Elective (Pending approval)**
Periods Offered: April - August
Student Limit: By arrangement (Approval from Dr. Megan Arthur)
Contact Person: Tammy O'Donnell, 402-559-4306

This course is NOT available to visiting students

This 4 week Dermatology Research rotation is intended for students who are interested in pursuing a career in the field of Dermatology. This course has certain requirements that you must fulfill before you can proceed with research in the department. The first point of contact for this elective is the clerkship coordinator, Tammy O'Donnell tammy.odonnell@unmc.edu. Once you have spoken with the clerkship coordinator, you will be asked to contact the Dermatology Research Project Associate and the Post-Doctoral Research Fellow. The Post-Doctoral Research fellow will help identify your research interests and potential projects within the department. You will then be asked to contact physicians within the department to inquire about working with them on a research project. All research projects must be approved by Dr. Megan Arthur. You will need to initiate this process several months in advance of your rotation to ensure that a project is selected and proper regulatory training and requirements for human research training have been met (CITI Training, added to IRB applications, etc). Students will work closely with their research mentor to find and answer clinically relevant, meaningful questions within the field of Dermatology that can be completed within the 1 month rotation. They will learn to critically appraise an article, apply evidence based medicine to real world patients and assist in advancing the field of Dermatology. In order to receive credit for this course, students will be required to attend weekly research meetings, attend monthly journal club, present their research findings, and submit a final manuscript.

EMERGENCY MEDICINE

Chair – Michael Wadman, M.D.
Student Clerkship Director – Lisa Meinke, M.D.
Student Clerkship Coordinator – Heather Noyes
UT 3260 A
402-559-2571

All electives through this department are pre-arranged with Heather Noyes through e-mail – heather.noyes@unmc.edu.

Emergency Medicine is a time-dependent specialty that demands the immediate decision-making and timely actions necessary to prevent death or further disability for patients in health crises. It is practiced as patient-demanded and continuously available care for a patient population that is unrestricted and presents with a full spectrum of episodic, undifferentiated physical and behavioral conditions.

The student's responsibility in the ER is to serve as the primary caregiver to the patient in conjunction with other ED staff members and the supervision of the attending physician on duty. The physician assistants and certified nurse practitioners **will not** supervise or evaluate medical students performing a clerkship in the ED. Students are discouraged from serving only in an information-gathering role. Students will be expected to perform a directed history and physical examination, formulate appropriate differential diagnoses, and institute a clinically indicated evaluation and treatment plan after discussion with the attending physician. This responsibility will also include abstracting information from the patient's medical record, serially monitoring the patient for changes in clinical status and keeping the patient informed during the course of their ED evaluation. Procedures that need to be performed on a medical student's patient will be completed by the student under the supervision of the attending physician, unless the attending physician determines that a higher level of expertise is required in order to safely complete the procedure.

As the primary physician practicing under the direction of our ED staff, your educational goals and objectives are as follows:

COURSE GOALS

Overall Goal: The development of the student's clinical skills, including the diagnosis and management of life-threatening conditions in the undifferentiated patient with a secondary emphasis on basic procedural skills.

Goals:

1. The student will be able to perform a directed, problem-focused history and physical examination.
2. The student will formulate a differential diagnosis addressing urgent and emergent conditions consistent with history and physical examination findings.
3. The student will demonstrate proficiency in basic patient care and monitoring procedures.
4. The student will become proficient in basic wound management.
5. The student will become proficient in basic splinting/immobilization techniques.
6. The student will become proficient in basic EKG interpretation.
7. The student will develop interpersonal skills and professional attributes necessary to provide care in the Emergency Department.
8. The student will understand the role the Emergency Department plays in the greater health care system and how the Emergency Physician may facilitate patient care, including pre-hospital care.

****EMED-733 Trauma Center/Emergency Department – University Hospital**

Periods Offered: Each four weeks

Student Limit: 4

Where to Report: Emergency Department

This is an experience at the Nebraska Medical Center University Hospital, which will show the operation of an emergency department in a large community by full-time faculty of the College of Medicine and allows students direct patient contact under supervision of an attending physician. In addition, the rotation includes wound care and procedure lab, extremity injury and immobilization lab, simulation lab and a post-test (NBME EM Shelf Exam). Paramedic squad observation will be offered, but is not mandatory. For further information, contact Heather Noyes or Dr. Lisa Meinke at University Hospital (402-559-2571).

****EMED-734 Hyperbaric and Undersea Medicine**

Periods Offered: Each four weeks

Student Limit: 1

Staff: Dr. Jeffrey Cooper

Where to Report: Clarkson tower – 9th Floor

This course is NOT available to visiting students.

Undersea and hyperbaric medicine specialists work with other physicians to treat infectious, traumatic, radiation, surgical and iatrogenic emergencies. This is highly specialized work founded on a large and rapidly progressing literature base. Hyperbaric treatments are advocated by specialists in oral maxillofacial surgery, trauma surgery, infectious disease, internal medicine, pediatrics, toxicology, orthopaedics, critical care and other fields as highly efficacious, scientifically sound, and fiscally responsible. Medical students in those schools associated with hyperbaric facilities learn state of the art treatment of medical and surgical emergencies, including air gas embolism, necrotizing fasciitis, gas gangrene, osteomyelitis, radiation injuries, sudden hearing loss, sudden vision loss, avascular necrosis, gas toxicities, decompression illness, thermal burns and comprised flaps or grafts.

This course is designed to introduce the student to the principles of hyperbaric, diving and undersea medicine. The student will have the opportunity to observe monoplace hyperbaric medicine treatments and will review theory of the use of hyperbaric in the 14 UHMS approved therapies. Complication and controversies of HBO use will be discussed in lecture format. The student will review common wound problems, diabetes infection, nutrition, venous stasis and arterial insufficiency. Students will be exposed to patients with radiation injury, diabetic wounds, vascular issues and infectious issues such as osteomyelitis and necrotizing fasciitis. Didactics will include undersea and diving related topics such as gas embolism, decompression illness, inert gas narcosis, barotrauma, and marine envenomations and environmental illness. The Hyperbaric Medicine Center at UNMC is the only 24-hour per day hyperbaric medicine referral center with critical care capability from Des Moines to Denver and Kansas City to Minneapolis.

EMED-735 E.D. Bellevue – Community Emergency Medicine

Periods Offered: Each four weeks

Student Limit: 6

Contact Person: Heather Noyes, heather.noyes@unmc.edu; 402-559-2571; UT 3202C (Zip 1150)

This course is NOT available to visiting students.

This is an experience at the Nebraska Medicine Bellevue Medicine Center Emergency Department (30,000 visits/yr). This rotation is designed to expose students to the operations and patient care provided at a community based mid-sized ED by full-time faculty of the College of Medicine. Student will provide direct patient care under supervision of an attending physician. The rotation also includes dedicated didactic and simulation 4 hours including wound care and procedure lab, extremity injury and immobilization lab. There is no end of rotation standardized test.

EMED-761 Off-Campus Emergency Room

Periods Offered: Each four weeks

Student Limit: By Arrangement

Contact Person: Heather Noyes

This course is NOT available to visiting students.

Special off-campus electives in Emergency Medicine at other medical centers can be arranged for an extraordinary learning experience not regularly available within the department. Any student interested in this elective may choose their experience or ask for suggestions from the EM Clerkship Director. An Off-Campus Elective Application form must be signed by the student's advisor then submitted to the Emergency Medicine Department clerkship director for approval. The primary concern is to identify a responsible and acceptable faculty-in-absentia who will assure an active clerkship and offer an evaluation of performance.

FAMILY MEDICINE

Chair – Jeffrey Harrison, M.D.

Medical Student Education Director – Mindy Lacey, M.D.

Phase 3 Family Medicine Track Director – Susan Evans, M.D.

Scheduling Educational Coordinator – Elizabeth Morris

The objective of this department is to prepare students to carry out their functions as leaders and coordinators of health care teams as they provide access to the health system and assume continuing responsibility for the management of patients over a long period of time. More specifically, the program is designed to do the following:

The student will:

1. Experience a family medicine model of practice, which will infuse the student with a philosophy of family medicine and an understanding of the role of the family physician.
2. Acquire excellent skills in diagnosis, treatment and management of patients and technical procedures appropriate for family medicine.
3. Develop the knowledge and appropriate depth in various fields of medicine encompassed by family medicine.
4. Practice the knowledge and appropriate depth in various fields of medicine encompassed by family medicine.

ADVISORS

Susan Evans, M.D.

Jeff Harrison, M.D.

Kimberly Jarzynka, M.D.

Mindy Lacey, M.D.

Aaron Lanik, M.D.

FMED-712 Community Health Education Elective

Available Times: Each four weeks

Student Limit: 1

Primary Faculty: Dr. Jennifer Liu

Arranged with Beth Morris 402-559-7064 fmtrackcoordinator@unmc.edu

This course is NOT available to visiting students

Medical students will meet community health needs while developing their own ability to understand and address the complex health challenges they will encounter in patient care. A student will be assigned to a community site(s) and partner with them in delivering a community health education session (s). Over several planning sessions, the student will then implement 3 community health education projects under the direction of the faculty member from family medicine and community site advisor. Community based learning projects will focus on preventable causes of premature morbidity and mortality throughout Omaha. Examples include: maternal and child health education support for expectant mothers and mothers of pre-schoolers; after-school projects to prevent high-risk health behaviors among adolescents; and other health promotion and education activities for chronic diseases. Community sites will be chosen by the attending but will likely be with children in under-resourced settings.

FMED-719 The Role of Nutrition in Patient Care

Available times: February ONLY

Student Limit: 4 medical students

Primary faculty: Susan Evans, M.D.

Arranged with Elizabeth Morris 402-559-7064, fmtrackcoordinator@unmc.edu

This course is NOT available to visiting students.

This elective is an in-depth, comprehensive study of the role of nutrition in patient care. Students on this rotation will spend time in clinic with physicians who use nutrition to help their patients prevent and treat disease. They will also spend time in clinic with dieticians to learn how they use nutrition to treat patients. Assignments include self-directed learning, teaching peers, and a final presentation.

Objectives: After completing the elective, the student will be able to

- Discuss the role that nutrition plays in health and disease
- Discuss the basic science aspects of important nutritional problems
- Demonstrate increased competence in diagnosing, treating, and managing patients with nutrition problems
- Describe community food resources for patients
- Discuss evidence-based pharmacological nutritional therapy

****FMED-720 Family Medicine Outpatient Sub-internship – Durham Outpatient Clinic**

Dr. Susan Evans and Staff

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Durham Outpatient Center Family Medicine Clinic on 3rd Floor

Contact Elizabeth Morris 402-559-7064, fmtrackcoordinator@unmc.edu

This is a clinical experience in the Durham Outpatient Center Family Medicine Clinic at UNMC. It includes experience in treating adults and children with acute and chronic illnesses. This rotation covers all aspects of Family Medicine in an outpatient setting in addition to exposure to preventive medicine and surgical procedures done in the Family Medicine office. Students also participate in Family Medicine teaching day lectures when appropriate. NOTE – Addition of inpatient, OB, geriatric, or procedural experience could be arranged on an individual basis.

Activity	Hours/Week
Rounds	0
Didactic conferences	0 – 5, Family Medicine Teaching Day on 2 nd and 4 th Wed. mornings
Independent learning	5
Independent patient care	30

FMED-721 Family Medicine Outpatient Sub-Internship – Nebraska Medicine Chalco Clinic

Dr. Alberto Marcelin

Periods offered: Each four weeks

Student Limit: 1

Where to Report: Chalco Clinic

Contact Elizabeth Morris at 402-559-7064, fmtrackcoordinator@unmc.edu

An exposure to all aspects of Family Medicine in a private office setting. This rotation covers all aspects of Family Medicine in an outpatient setting in addition to preventive medicine and surgical procedures done in the Family Medicine office. Located at 8343 S 168th Ave. Omaha NE 68136

Activity	Hours/Week
Rounds:	0
Didactic conferences	0-5 Family Medicine Teaching Day 2 nd and 4 th Wednesday mornings
Independent learning	5
Independent patient care	30

****FMED-722 Family Medicine Outpatient Sub-Internship – Bellevue Medical Center**

Toby Free and Staff

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Bellevue Medical Center

Contact Elizabeth Morris 402-559-7064, fmtrackcoordinator@unmc.edu

A clinical experience at the University satellite clinic located at 36th Street and Highway 370. This rotation covers all aspects of Family Medicine in an outpatient setting in addition to exposure to preventive medicine and surgical procedures done in the Family Medicine office.

NOTE – Addition of inpatient, OB, geriatric, or procedural experience could be arranged on an individual basis.

Activity	Hours/Week
Rounds	0
Didactic conferences	0 - 5, Family Medicine Teaching day on 2 nd and 4 th Wed. mornings
Independent learning	5
Independent patient care	30

****FMED-723 Family Medicine Outpatient Sub-Internship – Oakview Clinic**

Dr. Elisabeth Backer and Staff

Periods Offered: Each four weeks except April and May

Student Limit: 1

Where to Report: Oakview Medical Center

Contact Elizabeth Morris 402-559-7064, fmtrackcoordinator@unmc.edu

An exposure to all aspects of Family Medicine in a private office setting. This rotation covers all aspects of Family Medicine in an outpatient setting in addition to exposure to preventive medicine and surgical procedures done in the Family Medicine office. Located at 2727 S. 144th St., Suite 140, Omaha, Nebraska.

Activity	Hours/Week
Rounds	0
Didactic conferences	0-5, Family Medicine Teaching day on 2 nd and 4 th Wed. mornings
Independent learning	5
Independent patient care	30

****FMED-727 Family Medicine Inpatient Service Sub-internship (UNMC)**

Chief Resident and Staff

Periods Offered (student limits): April (2), May (2), June (2), July (2), Aug not available, Sept (1), Oct (1), Nov (1), Dec (2), Jan (1), Feb (1), March (1)

Where to Report: Chief Resident – Room 2106 MSB

Contact Elizabeth Morris 402-559-7064, fmtrackcoordinator@unmc.edu

Students are given sub-internship responsibilities commensurate with experience under the direct supervision of the Family Medicine Chief Resident and inpatient attending physician. The inpatient service admits patients from Family Medicine Clinics, from the E.R. or Family Medicine referral patients from outstate Nebraska.

Activity	Hours/Week
Rounds	20
Didactic conferences	5
Independent learning	5
Research project	0
Independent patient care	20 – 42

****FMED-730 Family Medicine Sub-Internship-Lincoln General**

PRE-ARRANGED: PRE-ARRANGED THROUGH SUSAN VRBKA (402)327-6911

There is also an application to fill out for this rotation.

Periods Offered: Each four weeks except July and August

Student Limit: 2

Where to Report: Lincoln Family Medicine Program. Both Elizabeth Morris 402-559-7064, fmtrackcoordinator@unmc.edu and Susan Vrbka 402-327-6911 need to know that you have pre-arrangements.

This course is NOT available to visiting students

The Lincoln Family Medicine Program is a clinical experience, both inpatient and outpatient, for 4th year medical students who want a concentrated experience in Family Medicine. Students are given the opportunity to follow their own schedule of ambulatory patients, round on hospital patients, attend deliveries, and visit specialties while on rotation in Lincoln.

This rotation is coordinated through the Department of Family Medicine with the Lincoln Family Medicine Residency Program.

Activity	Hours/Week
Rounds	15
Didactic conferences	5
Independent learning	6
Research project	2
Independent patient care	12

****FMED-732 Family Medicine Sub-Internship – Clarkson Family Medicine
PRE-ARRANGED THROUGH BEV HILBURN (402-552-2050)
There is also an online application to fill out for this rotation.**

Dr. Dorota Britz

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: TBA (via letter) –Bev Hilburn at 402-552-2050. BOTH Bev Hilburn and Elizabeth Morris (402-559-7064) fmtrackcoordinator@unmc.edu need to know that you have pre-arranged this elective.

This course is NOT available to visiting students.

This is a four-week clinical experience, both inpatient and outpatient, in Family Medicine. This rotation is coordinated through the Department of Family Medicine with the Nebraska Medical Center/Clarkson Regional Health Service Program. The purpose of this rotation is to allow senior students the opportunity to experience the daily practice of clinical community-based Family Medicine through care of patients in both the clinical and the inpatient setting under the guidance of Family Medicine residents and faculty. Dr. Dorota Britz is in charge of instruction for the M4 students.

Activity	Hours/Week
Rounds	While on IP Rotation
Didactic conferences	3 hours on Wednesday afternoons
Independent learning	Optional
Research project	No
Independent patient care	Variable – 35

FMED-733 Rural Training Track

Pre-arranged through Elizabeth Morris at fmtrackcoordinator@unmc.edu

Questions regarding the elective – Contact Dr. Aaron Lanik at aaron.lanik@unmc.edu or 402-559-6833

Periods Offered: Each four weeks

Student Limit: 1

Please specify Rural Location upon request. Confirmation will be subject to availability at Rural site.

This course is NOT available to visiting students.

This is a four-week campus clinical experience, both inpatient and outpatient, in Family Medicine at one of the existing Family Medicine rural training track Family Medicine residency sites. The purpose of this course is to allow senior medical students who are interested in the rural training track residency program to perform a clinical rotation at one of these sites.

Activity	Hours/Week
Rounds	6
Didactic conferences	4
Independent learning	5
Research project	0
Independent patient care	25-30

****FMED-735 Family Medicine Outpatient Sub-internship - OneWorld Community Health Center**

Pre-arranged through Elizabeth Morris 402-559-7064 at fmtrackcoordinator@unmc.edu or 402-559-7064. Pre-arrangement also includes an online application. As a part of the application you will need to provide a time you would be available for a Spanish evaluation. Please be sure to do this at least a month before the rotation is set to start.

Students interested in this rotation should submit a 200 word or less essay on why they are interested in primary care and their past experience working with underserved individuals.

Dr. Melanie Menning

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: OneWorld (Contact Tay Orr at 402-502-8860 or by e-mail at torr@oneworldomaha.org)

This is a four-week course for senior medical students who speak Spanish and are interested in primary care for underserved patients. Students interested in this rotation should submit a 200 word or less essay on why they are interested in primary care and their past experience working with underserved individuals.

Students will gain exposure to a Federally Qualified Health Center and learn about some of the resources available to assist uninsured patients in our community. In addition, students will gain exposure to the family medicine residency at OneWorld.

As greater than 50% of the patients speak Spanish, students must have a basic conversational ability in Spanish. Students will have the opportunity to practice their interviewing and physical exam skills in both English and Spanish while being supervised by the One World attending physicians. Students will be vetted by a One World employee via telephone prior to the rotation to ensure that their Spanish capabilities are adequate to ensure a fulfilling rotation.

Grade for this rotation is based on attendance, enthusiasm, demonstration of cultural competency, respect and professionalism with patients and support staff, written notes, and a final case report.

Activity	Hours/Week
Rounds	0
Didactic conferences	2
Independent learning	4
Research project	10
Patient care	30

FMED-737 Domestic Violence

PRE-ARRANGED THROUGH Elizabeth Morris (402-559-7064) fmtrackcoordinator@unmc.edu

Periods Offered: Typically offered in September/October and February/March

**Staff: Dr. Cynthia Hernandez – Assistant Professor, Department of Emergency Medicine
Greater Omaha**

Student Limit: 2 per month

This course is NOT available to visiting students.

A four-week immersion experience in domestic violence, prevention and treatment using a bio-psychosocial community health model. Presentations/Topics covered:

- Survivor Experience
- Intimate Partner Violence as a Critical Healthcare Issue
- Advocacy & Protective Orders
- Shelter Services
- Impact of DV on Children
- Probation Responses for Offenders
- Law Enforcement
- Military Family Advocacy
- Batterer Invention Program – Men
- Sexual Assault/DV Forensic Nurse Examinations
- Mock Trial
- RE-Entry Assistance
- Building Healthy Relationships

FMED-739 SHARING CLINIC

PRE-ARRANGED THROUGH Elizabeth Morris (402-559-7064) fmtrackcoordinator@unmc.edu

Staff: Dr. William Hay

Periods Offered: Each four weeks by arrangement

Student Limit: 4 per year

This course is NOT available to visiting students.

During the fourth year, the student will participate in a student run clinic for the underserved by assisting the student administrators and by providing patient care. The student will also attend SHARING Board meetings and complete a clinical quality improvement project mutually agreeable to the student and the Board.

Methods of Instruction – 1 to 1 clinical precepting and mentoring CQI project

Faculty facilitated clinic administration

Independent research and study of CQI project

During the senior year, the student will attend one evening clinic session (3-4 hours) for each of three SHARING clinics during eight four-week elective periods for a minimum of 24 visits during the year; additional visits may be required during some months to compensate for off-campus elective time and when these activities conflict with required activities of other electives, such as night call. In addition, students will attend SHARING Student and Faculty Board Meetings (2-3 hours per month over the noon hour) and complete the quality improvement project (approximately 4-6 hours per month) by the end of March.

Responsibilities to the SHARING Clinic throughout the M4 year DO NOT take precedence over the elective for which the student is registered in each of the other months. Students are responsible for arranging their SHARING visits each month after they have received the schedule for their elective that month.

FMED-750 International Health Elective

Periods Offered: Each four weeks

Student Limit: By Arrangement

You must pre-arrange this elective with:

Sara Pirtle, Global Engagement (402-559-2924) And

Elizabeth Morris (402-559-7064). Please fill out the Off Campus Form. This form will need to be signed by Sara Pirtle, Lisa Paquette, and Elizabeth Morris.

Students will be unable to do the elective if Sara Pirtle has not been contacted.

This course is NOT available to visiting students.

The course offers students the opportunity to participate in a health care setting in a foreign country. Students' responsibilities, performed under the supervision of trained medical personnel, may include work in clinics and hospitals; home visits with community health workers, and health education. In addition, the student will also participate in a brief orientation and debriefing on campus.

Elective in China (FMED-750) – 6 students per month. Questions regarding the China experience – Please call Lenal Bottoms at (402-559-3791)

This elective is designed to give students experience in practicing in the unique environment of China. This one-month elective is based at the University Hospital of Shanghai Jiao Tong University School of Medicine, a 1,600-bed hospital and the principal teaching hospital of SJTUSM. The focus of this elective is to learn about the differences between the health care systems of the US and China. Students will work alongside Chinese medical students and attending faculty. The city of Shanghai is the "hotspot of modern China", with a population of 17,000,000. There are many sightseeing opportunities available in China, also, including the Great Wall, Xi'an City, as well as several areas within Shanghai. This experience must be pre-approved and set up through the Asia Pacific Rim Development Program Office. Initial contact person is Lenal Bottoms, 402-559-3791.

FMED-760 Private Practice Office Clerkship – Omaha

Periods Offered: Each four weeks

Student Limit: By Arrangement

Where to Report: T.B.A.

Contact: Elizabeth Morris 402-559-7064

This course is NOT available to visiting students.

This elective offers a chance to participate in and observe private practice in family physicians' offices in Omaha. An off-campus elective application form must be submitted for this experience. (See Off-Campus Elective Application procedures).

Please note – you will need to contact the Family Medicine Department and let them know where you plan to complete this rotation **before** you begin this rotation.

FMED-761 Off-Campus Family Medicine Elective
Periods Offered: Each four weeks
Student Limit: By Arrangement
Contact: Elizabeth Morris 402-559-7064

Please fill out the Off Campus Form. This form will need to be signed by Lisa Paquette and Elizabeth Morris.

This course is NOT available to visiting students.

This elective offers a chance to participate in and observe an off-campus elective in an out of state locale of the students' choice. An off-campus elective application form must be submitted for this experience. (See Off-Campus Elective Application procedures).

Please note – you will need to contact the Family Medicine Department and let them know where you plan to complete this rotation **before** you begin this rotation.

FMED-799 Research Project in Family Medicine
Periods Offered: Each four weeks
Student Limit: By permission
Contact Jenenne Geske at 402-559-6758

This course is NOT available to visiting students.

Students may select a project in which they are particularly interested and pursue this project intensively for four weeks. Preferably, several months in advance of the Research Project rotation, students will develop a project idea with a faculty mentor in the Department of Family Medicine, and initial preparatory steps will be taken (e.g. completion of CITI human subjects protection training, submission of an IRB application). The faculty mentor will work with the student to develop a plan for the research over the course of the four-week period and will continue to mentor the student throughout the research project. The student should be prepared to spend time after the Research Project rotation to complete the research.

Interested students should send a brief description of their project, along with the name of their project mentor, to Jenenne Geske, PhD.

INTERNAL MEDICINE

Chair: Dr. Debra Romberger, M.D.

Phase 2 Student Clerkship Director: Dr. Nathan Andersen, M.D.

Phase 3 Student Directors: Drs. Rae Witt, M.D. and Jill Zabih, M.D.

Jill McIntosh-Carnes, Education Programs Coordinator

MSB 55116, 402-559-6422, jill.mcintoshcarnes@unmc.edu

All electives through this department are pre-arranged with Jill McIntosh-Carnes

****IMED-717 Omaha VAMC – Critical Care Medicine**

Dr. Craig Piquette and Omaha VA Medical Center ICU Staff

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Omaha VA Medical Center ICU, 2nd floor, 8:00 a.m. Check with the UNMC Supervising Resident for assignment.

Contact Person: Chelsea Hug for Attending Schedule, 402-559-4087.

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.

*This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital.

This course is NOT available to visiting students.

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 sub-internship 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. As a sub-internship, clinical expectations will include primary responsibility for all patients assigned to their care, writing a note each day on their patients to be cosigned by the supervising resident and attending physician, 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 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.

Activity	Hours/Week
Rounds	10
Didactic conferences	5
Independent learning	3 - Review literature related to patient problems
Research project	None
Independent patient care	Not expected
Procedures	Based on student interest and competency

Any leave requests, either for residency interviews or other needs should be cleared with the attending physician by calling the contact number above.

IMED-718 Teaching Assistantship
Periods Offered: Year Round (July – March)
Student Limit: Varies
Faculty Contact: Dr. Regan Taylor
Contact Person: TBD

This course is NOT available to visiting students.

This elective is arranged through Ron Bechdolt (402-559-8689).

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.

****IMED-720 Adult Cardiology**
Faculty: UNMC – Dr. Dan Anderson and Staff
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Contact Cardiology Fellow
Contact Person: Tuwanda Mayberry, 402-559-9268

Educational Goals and Objectives

Knowledge Base

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:

1. History of chest pain
2. History suggestive of heart failure
3. Syncope
4. Cardiac pre-operative evaluation

Learn the proper techniques for a detailed cardiac examination to include:

1. Complete cardiac examination;
2. Examination for valvular diseases
3. Examination for heart failure symptoms

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.

Understand how to implement guideline-driven care of the cardiac patient.

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 UNMC 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 Anesthesia 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.

IMED-720A Adult Cardiology-Methodist

Faculty: Dr. Matthew Latacha

Periods Offered: Each four weeks with approval

Student Limit: 1

Contact Person: Contact Jill McIntosh-Carnes, 402-559-6422 for pre-approval for this course.

This course is NOT available to visiting students.

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 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 consists 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.

IMED-722 Advanced Internal Medicine “Meyers’ Course”

Faculty: Drs. David O’Dell and J. Scott Neumeister

Periods Offered: April, May, July, August, October, November ONLY

Student Limit: 6 minimum - 15 maximum/month

Where to Report: UT 5412c, 8:00 a.m. first day of class

Contact Person: Jill McIntosh-Carnes, 402-559-6422. Information will be sent out prior to start.

This course is NOT available to visiting students.

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 1pm. Anticipate an additional 2 hours of prep time for the next day (i.e. text/journal reading/ completing pattern recognition).

Activity	Hours/Week
Rounds	0
Didactic conferences	7.5
Independent learning	4
Research project	0
Independent patient care	0
Small Groups	15

****IMED-723 Diabetes, Endocrine and Metabolism (D.E.M.)**

Faculty: Drs. Desouza, Armas, Mack, Goldner, A. Neumeister, Shivaswamy, Boerner, Drincic, Eiland, Patel, Akkireddy, Kotwal, Johnson-Rabbett, Polavarapu, and Puri
UNMC

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Diabetes Center SSP / 1st Floor

Contact Person: Grace Handleman, 402-559-4284, grace.handleman@unmc.edu

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 may decide if they would prefer to do the rotation predominantly in the outpatient clinic, predominantly on the inpatient service, or have an equal mix of both. 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.

Activity	Hours/Week
Rounds	6 to 20
Didactic conferences	4
Independent learning	3
Research project	0
Independent patient care	4
Clinic	6 to 20

IMED-724 Gastroenterology

Faculty: UNMC – Dr. Rochling and Division Faculty

Periods Offered: Each four weeks (estimated hours 7:00am – 5:00pm M-F)

Student Limit: 1

Where to Report: The Education Coordinator (Lynne Roh) at lynne.roh@unmc.edu will send you an e-mail before the rotation begins. In the e-mail you will be given the name and pager of the attending and fellow on service and instructions to call them on the first day. **PLEASE LOOK FOR THIS E-MAIL.** If you do not receive it, please call Lynne Roh at 402-559-4356.

Contact Person: Lynne Roh, 402-559-4356

This course is NOT available to visiting students.

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. There will be one position available monthly at UNMC.

****IMED-726 Infectious Disease**

Faculty: UNMC - Drs. Rupp, Hewlett, Ashraf, Bares, Cawcutt, Marcelin, Van Schooneveld, Hankins, Schnaubelt, Cortes-Penfield, Starlin (Adult ID)

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: UNMC – Call 402-559-8650 for information

Contact Person: Megan Hoelsing, 402-559-8930-, Dr. Van Schooneveld 402-559-8650

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. Daily, one hour didactic sessions covering a variety of essential ID topics are presented (HIV, immunocompromised host infections, endocarditis, etc.). Clinical microbiology education is also included with both lecture and practical lab experience. Students attend and may have the opportunity to present at the weekly City-wide infectious Disease Care Conference where unusual or interesting ID cases are discussed. Time in the General ID and clinic is also a component.

****IMED-727 Renal**

Faculty: Drs. Troy Plumb, Marius Florescu, Jay Hawkins Ryan Mullane, Doug Franz and Felipe Naranjo

Periods Offered: Each four weeks

Student Limit: 3

Where to Report: UNMC

Contact Person: Mackenzie Dehmer, 402-559-8501

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 renal 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. By special request, additional students may take a transplant nephrology rotation or as a research rotation under the direction of an individual faculty member.

IMED-727A Renal at The Nebraska Medicine

Faculty: Omaha Nephrology Group, Drs. Judd Bauer, Lindsay Gage, Brian Poole, Joseph Bast, Richard Lund

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Inpatient Dialysis (5899) Area, 7:30 a.m.

Contact Person: Penny Davis, 402-552-3795, pdennis@nebraskamed.com

Contact Jill McIntosh-Carnes, 402-559-6422 for pre-approval for this course.

This course is NOT available to visiting students.

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.

Activity	Hours/Week
Rounds	20
Didactic conferences	3
Independent learning	2-12
Research project	0
Independent patient care	20
Dialysis	3

IMED-728 End-of-Life Care: Hands On Experiences
Faculty: Dr. Catherine Eberle, Dr. Natalie Manley, M.D., MPH
Periods Offered: Pre-Approval with Travis Weyant ONLY.
Student Limit: 1
Dr. Catherine Eberle, Dr. Natalie Manley, M.D., MPH
Contact Person: Travis Weyant, 402-559-3964

*This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital.

This course is NOT available to visiting students.

This elective is designed to provide students with a variety of experiences in end-of-life care. Students will improve their ability to provide competent care at the end of a person's life and increase their knowledge of available resources to assist patients and their families.

Activities include:

1. Core lectures and readings include:
 - * Family Meeting – Making a Big Decision
 - * Common Symptoms & Their Management
 - * End of Life Care in the ICU (Withholding/Withdrawing Treatment)
 - * Pain Management: A Pharmacist's Perspective
 - * How to Pronounce a Patient and Complete a Death Certificate
2. Participation with a community based hospice team by:
 - * making home visits, nursing home visits and visiting Omaha's only Residential hospice (Hospice House)
 - * attending interdisciplinary hospice team meeting and working with key members of the team;
3. Working with a hospice medical director;
4. Participate in the Advance Care Team at the Omaha VA Medical Center.
5. An oral presentation (15-30 minutes) on a topic related to hospice and care of the dying is expected. *This should be a topic that the student can continue to use in the future to teach others about care of dying patients.*

Other opportunities are available based on the interest of the student. These may include working with a pain specialist in an outpatient pain clinic, a pharmacist specializing in pain management, a radiation oncologist, visiting a local funeral home or a community bereavement resource center.

Scheduling is flexible and students may arrange the schedule around interviews and other activities.

Activity	Hours/Week
Rounds (Palliative Care at VA)	6
Didactic conferences	4
Independent learning	16
Oral presentation prep	2
Home Visits	9
Site Visits	2
Hospice Administration	1

IMED-730 Medical Oncology/Hematology**Faculty:** Drs. Al-Kadhimi, Armitage, Baljevic, Bhatt, Bociek, Cowan, D'Angelo, Ganti, Grem, Gundabolu, Holstein, Kallam, Klute, Krishnamurthy, Krishnan, Lunning, Maness, Marr, Nester, Reed, Sharma, Shonka, Tandra, Tenner, Teply, and Vose**Periods Offered:** Each four weeks**Student Limit:** 1**Where to Report:** Buffett Cancer Center, 4th Floor**Clinic Contact:** Norrisa Richardson, 402-559-5166. **Clinic Contact:** Jake Selph at 402-559-8000

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, one week on the hematology consult service and numerous outpatient clinics throughout the month. The clinics are somewhat subject-oriented and sometimes are conducted simultaneously. 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. A half day is also spent in the cancer treatment area and radiation oncology.

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.

Activity	Hours/Week
Rounds	Up to 30
Didactic conferences	4-5
Independent learning	Unlimited
Research project	If desired
Independent patient care	Up to 20-30 hours in clinic

IMED-733 Pulmonary Medicine**Faculty:** UNMC – Dr. Hershberger and Staff**Periods Offered:** Each four weeks**Student Limit:** 2**Where to Report:** University Tower UT 5216, Respiratory Care Services Conference Room, 9:00 am**Respiratory Care Services Conf. Room, 9:00 a.m.****Contact Person:** Chelsea Hug 402-559-4087**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 of the level of 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.

Activity	Hours/Week
Rounds	12
Didactic conferences	2 - 3
Independent learning	Pre- and Post-test, approximately 3 hours
Research project	None
Independent patient care	Not expected
Procedures	Based on student interest and competency

****IMED-734 UNMC Critical Care Medicine**

Faculty: Dr. Hershberger and Critical Care Medicine Staff

Periods Offered: Each four weeks

Student Limit: 5 (2 on Blue and White, 1 on Red)

Where to Report: MICU Conference Room 5th Floor University Tower, 9:00 a.m.

Contact Person: CCM Fellow on Perfect Serve or 402-888-7000

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 dysrhythmias. They will participate in many 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 rotate on the 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.

Activity	Hours/Week
Rounds	20
Didactic conferences	8
Independent learning	Review literature related to patient problems
Research project	None
Independent patient care	Not expected
Procedures	Based on student interest and competency

IMED-735 Honors Program in Internal Medicine (UNMC or OVAH)

Faculty: Internal Medicine Chief Residents

Periods Offered: Varies with pre-approval ONLY.

Student Limit: 1 per rotation

Pre-requisite: Internal Medicine Required Clerkship with Honors grade or prior approval

Where to Report: Information will be emailed out prior to start.

Contact Person: Jill McIntosh-Carnes, 402-559-6422

This course is NOT available to visiting students.

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.

Activity	Hours/Week
Rounds	0
Didactic conferences	20
Independent learning	20
Research project	0
Independent patient care	0

****IMED-736 Allergy and Immunology**

Faculty: Dr. May

Periods Offered: Each four weeks

Student Limit: 1 per rotation

Contact Person: Whitney Dailey, 402-559-4088

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. Each student 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 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. In addition, he or she will participate in allergy division lectures and 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.

Activity	Hours/Week
Rounds	0-1 hours/week
Clinic	35-40 hours/week
Didactic conferences	2 hours/week
Independent learning	4 hours/week
Research project	NA
Independent patient care	NA

****IMED-743 Co-management Medicine****Faculty:** Drs. Nicolle Peterson, Jason Shiffermiller, and Trek Langenhan; UNMC Internal Medicine-Hospitalist faculty**Periods Offered:** Each four weeks: March-June 2020 (additional dates may be available at a later time, please contact Jill McIntosh-Carnes for more information.)**Student Limit:** 1**Where to Report:** Will receive orientation email from Nicolle Peterson; contact via email, Nicolle.peterson@unmc.edu, phone 402-552-9697**Contact Person:** Jill McIntosh-Carnes, 402-559-6422**This course is NOT available to visiting students.**

This rotation provides an immersive opportunity for senior medical students to learn the principles of safe and effective perioperative medical care of neurosurgical and orthopedic 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 H&Ps with a focus on risk stratification in the pre-anesthesia clinic 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.

Activity	Hours/Week
Rounds	10
Clinic	6
Didactic conferences	4
Independent learning	10
Research project	0
Independent patient care	12 (clinic and inpatient)

****IMED-744 Outpatient Geriatrics****Faculty:** Dr. Jane Potter and staff**Periods Offered:** Each four weeks**Student Limit:** Varies**Contact Person:** Contact Travis Weyant, 402-559-3964, tweyant@unmc.edu

This course is designed for students who anticipate careers in primary care and those whose careers will involve substantial outpatient responsibilities (most Internal Medicine subspecialties, neurology, psychiatry, physiatry, hospice and palliative care). Under health care reform an increasing proportion of care is occurring in outpatient settings, and individuals completing this experience will have a jumpstart on the necessary skills to thrive in outpatient care settings during residency. 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 are the following: Home Based Primary Care, Hospital and Palliative Care, Skilled Nursing Facility / Long Term Care, Geriatric Assessment and Primary Care Clinics and primary Care Medicine Home.

Activity	Hours/Week
Outpatient Clinics	30
Nursing Home Rounds/Home Visits	5
Didactic conferences	3
Independent Learning (Readings/Scholarly Project)	2

IMED-749 Field Epidemiology at Cedar Point

Faculty: Dr. Devin Nickol

Periods Offered: TBA

Student Limit: TBA

Where to Report: Please contact Dr. Devin Nickol

This elective is pre-arranged through Dr. Devin Nickol in the Department of Internal Medicine.

This course is NOT available to visiting students.

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.

****IMED-751 Rheumatology**

Faculty: Drs. James O'Dell, Ted Mikuls, Amy Cannella, Alan Erickson, Tina Mahajan, Bryant England, Marcus Snow, Mike Feely, Jennifer Medlin, Lindsay Helget, Kaitlyn Brittan, Geoffrey Thiele and Kaleb Michaud

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Karla Mace, 402-559-7792

*This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital.

This course is NOT available to visiting students.

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.

Activity	Hours/Week
Rounds	6
Clinic	28
Didactic conference	8
Research project	Not applicable

IMED-760 Off-Campus Internal Medicine Elective
Periods Offered: Each four weeks
Student Limit: By Arrangement (Approval from Dr. Rae Witt)
Please, contact Jill McIntosh-Carnes for more information, 402-559-6422.

This course is NOT available to visiting students.

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 off-campus 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. An Off-Campus Elective Application form must be submitted for this experience. (See Off-Campus Elective Application procedures).

****IMED-762 Internal Medicine Preceptorship**
Periods Offered: Each four weeks
Student Limit: By Arrangement (Approval from Dr. Rae Witt)
Please, contact Jill McIntosh-Carnes for more information, 402-559-6422.

This course is NOT available to visiting students.

Options include but are not limited to:
Cardiology at Methodist
Gastroenterology at Midwest Gastroenterology

IMED-763 VA Emergency Medicine
Faculty: Dr. Scott Menolascino
Periods Offered: Each four weeks
Student Limit: Variable – By Arrangement with Dr. Menolascino
Where to Report: OVAH
Contact Person: Dr. Scott Menolascino, 402-995-5217, scott.menolascino@va.gov

This elective is pre-arranged with Dr. Menolascino and Jill McIntosh-Carnes

*This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital.

This course is NOT available to visiting students.

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.

****IMED-766 General Medicine Inpatient Subinternship**
Faculty: OVAH Internal Medicine Chief Residency, Faculty and Staff
Periods Offered: Each four weeks
Student Limit: 3
Where to report: Information will be sent out prior to the start of the rotation.
Contact Person: Jill McIntosh-Carnes, 402-559-6422

*This course may have additional credentialing requirements for the Omaha Veteran's Affairs Hospital.

This course is NOT available to visiting students.

Spots are extremely limited and essentially not available from July – December 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. 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 3-4 nights of in-house call during the month.

Activity	Hours/Week
Rounds	50-60
Didactic conferences	Daily
Independent learning	Many opportunities
Research project	Variable
Independent patient care	Variable

****IMED-766A General Medicine Internship Sub-internship**
Periods Offered: Each four weeks
Student Limit: 7 total (5-Meyer Team, 2-Tower-Based Teams, months could be limited for TBR teams.)
Where to Report: Information will be sent out prior to the start of the rotation.
Contact Person: Jill McIntosh-Carnes, 402-559-6422.

Meyer Teams

This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 3-6 general medicine patients. 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 2-3 nights of in-house call during the month. The student will also be responsible for attending morning teaching rounds, noon conferences, and Internal Medicine Grand Rounds during the time of the rotation.

Activity	Hours/Week
Rounds	20
Didactic conferences	10
Independent learning	0
Research project	0
Independent patient care	30

Tower-Based Teams

Faculty: Drs. Chelsea Navarrette, Trek Langenhan, and Rae Witt; UNMC Internal Medicine Faculty
Where to Report: Information will be sent out prior to the start of the rotation.
Contact Person: Jill McIntosh-Carnes, 402-559-6422.

This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 3-6 general medicine patients. The student will admit, evaluate, manage and discharge typical medicine patients, all supervised directly by an attending physician. Admissions to the sub-intern will be limited and the student may be scheduled for 4 nights of consecutive in-house call during the month. The student will also be responsible for attending morning teaching rounds, noon conferences, and Internal Medicine Grand Rounds during the time of the rotation.

Activity	Hours/Week
Rounds	10
Didactic Conferences	10
Independent learning	0
Research project	0
Independent patient care	40

****IMED-767 Ambulatory Sub-Internship**

Periods Offered: Each four weeks

Student Limit: 2 total (1 Internal Medicine, 1 Med-Peds)

Internal Medicine

Faculty: Dr. Rae Witt and Internal Medicine Faculty and Staff

Where to Report: Information will be sent out via email prior to the start of the rotation

Contact Person: Jill McIntosh-Carnes, 402-559-6422.

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.

This course is NOT available to visiting students.

Med-Peds

Faculty: Drs. Rachel Johnson, Daniel Jeffrey, Sarah Smith, Jennifer Park, Eamon Maloney, Susan Hollins, Amber Keebler and Med-Peds Faculty and Staff

Where to Report: Fontenelle Clinic, 5005 Ames Avenue, Omaha, NE 68104. 402-559-0282

Contact Person: Dr. Rachel Johnson, 402-514-7632

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.

IMED-798 Internal Medicine Research Elective in Infectious Diseases
Faculty: UNMC Staff: Drs. Rupp, Swindells, Kalil, Freifeld, A. Hewlett, Van Schooneveld, D. Florescu, Bares, Zimmer, Cawcutt and Ashraf
Periods Offered: Each four weeks
Where to Report: Infectious Diseases Secretary, 402-559-8650
Contact Person: Dr. Trevor Van Schooneveld, tvanscho@unmc.edu

This course is NOT available to visiting students.

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

Activity	Hours/Week
Rounds	0
Didactic conferences	0
Independent learning	0
Research project	40
Independent patient care	0

IMED-799 Research in Medicine
Faculty: Internal Medicine Faculty and Staff
Periods Offered: Each four weeks
Student Limit: By Arrangement

This course is NOT available to visiting students.

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

MEDICAL INTERDEPARTMENTAL

M-ID-692 Intensive Spanish Language Elective - Sdoh Omaha - Xalapa

Credit Hours: 4

Number of Weeks: 4

Available times: January, February, March

Student Limit: 4 minimum

Primary Faculty: Dr. Shirley Delair and Dr. Melanie Menning

Cc: lisa.paquette@unmc.edu with course approval

This course is NOT available to visiting students.

This elective is intended to provide students with intensive exposure to Spanish with a focus on its use in health care. It is delivered in two parts. The first consists of a 3 week period of intensive Spanish instruction via Zoom with introduction to healthcare in Xalapa, Mexico. Instruction will occur 6 hours/day with one on one instruction with University of Xalapa Spanish instructors. In addition, there will be 2 Lectures a week (total 6), in English (Spanish if student is advanced), on topics including healthcare delivery in Mexico with a focus on Xalapa, adolescent pregnancy, gender violence, organ donation, Chagas disease and Malaria. Additional topics may vary. The second covers practical applications of social determinants of health in South Omaha for the remaining 1 week. Activities include 4 daily Spanish Language Skills Practice sessions including history taking and one day of clinic with a One World provider. Additionally, students will have didactic teaching on Immigrant law, how healthcare for immigrant populations contrasts with the rest of Nebraska, and advocacy. Students will also shadow with various staff members at the One World Clinic and a community group.

M-ID-694 Translational Research Assessment, Design, And Execution

Credit Hours: 4

Number of Weeks: 4

Available times: July- October, April -June

Student Limit: 1

Primary Faculty: Dr. Michael Baine & Surinder Batra

Cc: lisa.paquette@unmc.edu with course approval

This course is NOT available to visiting students.

The proposed course is designed to provide a one-month introduction to translational research in which students will gain the ability to objectively assess clinical and translational research needs, develop a reasonable plan to address these needs using biochemical and molecular biological techniques, assess and interpret the associated data, and be able to discuss these findings in a capstone project consisting of both an oral presentation and written (via abstract or manuscript production) format. Dr. Surinder Batra will provide his extensive knowledge and experience with translational projects and clinical collaborations to allow students to expand their understanding of how clinically relevant questions can be addressed and interpreted through a Biochemistry and Molecular Biology lab. Dr. Michael Baine will provide or coordinate real-world clinical experiences for students to help drive home the potential impact of their translational work and help them to gain the ability to assess data and interpret results in a clinically meaningful way. Specifically, Dr. Batra and Dr. Baine will help students to develop a clinically relevant research question with a reasonable theoretical path forward to clinical application. Dr. Batra or respective members of his lab will provide education on basic lab techniques, help undertake the respective assays required of the project, and give access and support in obtaining nationally available data such as through miRNA databases and TCGA etc. Dr. Baine will support maintaining the student's focus on the clinical relevance of the project and aid in developing knowledge and abilities for data assessment and interpretation. He will also aid the student in gaining the ability to clearly and concisely discuss the findings of the respective project through both an oral and written medium as well as provide avenues for proper peer review in the setting of local or national meetings and submission of manuscripts for publication. This course is designed to act as an introductory course and cannot itself be repeated. However, should a student wish to undertake a project of greater complexity than can be achieved in a one-month period, further research time can be undertaken via M-ID-763.

M-ID-695 Senior Teaching Elective in Anatomy
Credit Hours: 4
Number of Weeks: 4
Available times: Each four weeks
Student Limit: 12 total
Primary Faculty: Dr. Kimberly Latacha
Cc: lisa.paquette@unmc.edu with course approval

This course is NOT available to visiting students.

This elective is intended for students interested in academic medicine, education, and/or surgical subspecialties to participate in laboratory instruction of Phase 1 medical students as a teaching assistant. Students will attend relevant didactic teaching sessions in the block(s) in which they are teaching and interact closely with anatomy faculty members to prepare and deliver laboratory instruction. Students will also discuss learning theories, instructional methods, and course design. At the completion of the elective, participating students will complete an educationally-related project.

M-ID-725 Mechanisms of Heart Failure
Credit Hours: 4
Number of Weeks: 4
Available times: August
Student Limit: 4 minimum
Primary Faculty: Drs. Irving Zucker, Harold Schultz and Kaushik P. Patel
Cc: lisa.paquette@unmc.edu with course approval

This course is NOT available to visiting students.

Objective:

To introduce students to basic mechanisms involved in the mediation of acute and chronic heart failure. Concentration on contractile and neurohumoral dysfunction as well as renal and cardiopulmonary dysfunction are areas of focus. Emphasis will be placed on basic pathophysiological mechanisms.

Format:

Students will meet once per week for two hours in groups of at least four students. Current literature will be reviewed and discussed. Students will be given a specific problem area to research and present a position paper on. This will be in a pro/con format (e.g., ACE inhibitors vs. digitalis in the treatment of decompensated heart failure; Sympatho-excitation in heart failure is due to arterial baroreceptor inhibition). In addition, a laboratory experience will be provided. This will entail either performing or evaluating an echocardiograph or an evaluation of cardiac catheterization data in animals with experimental heart failure.

M-ID-728 Development of PBL Cases
Credit Hours: 4
Number of Weeks: 4
Available times: Varies (July through May excluding December)
Student Limit: Variable
Primary Faculty/Contact: Dr. Richard MacDonald

This course is NOT available to visiting students.

This elective is designed to provide an opportunity for a student to review knowledge of basic sciences as it applies to a particular clinical case. The focus of the activity should be on all of the basic science mechanisms and explanations for the signs and symptoms in a selected patient and on the disease process itself. The object of the elective is a case for use in problem-based learning

sessions or other major case-based learning activities for first- or second-year (Phase1) students in the medical curriculum.

Initially, the student should select a disease of interest, one manifested by a patient encountered during clinical rotations. The patient's history, including the history of the disease process, any predisposing conditions, attempts to treat the disease, and outcome of treatment will form the introductory phase of the study. Then the student should consult the literature to obtain information about the causes of the disease, variations in its presentation, the different treatments used and their relative effectiveness, the prognosis for patients and psychosocial issues impacting the outcomes. During this process, mastery of all basic science issues connected to the case must be considered more important than all other components. The student is expected to consult with clinical and basic science faculty regarding the case, the disease, basic science facts or mechanisms.

Students will be expected to contact Dr. MacDonald to obtain approval for the topic then the Office of Medical Education (OME) to obtain a case number. The OME will then enroll the student in the CANVAS course "PBL Case Writing for M4 Students" and provide access to the PBL case database.

- The end product of the elective will be a *finished, ready-to-use case*. Full instructions for the assembly of the case will be found in the case-writing handbook found in the Blackboard course
- The case should be submitted as email attachment(s) with the word processor files for the entire case, preferably in Microsoft Word format as well as any PowerPoint presentation(s).
- ***A Form (the checklist) signed by the clinical consultant and basic science consultant should be submitted with the case. Also, include a pharmacologist in the review process for any cases in which drug therapy is included.***
- Only complete cases (i.e., those with all of the parts listed in the case-writing handbook), written in acceptable English and typed in proper format will be accepted.
- ***To receive a letter grade, the case must be completed by the end of the Fall Semester for those registered during July, August, September, October, or November OR by April 1st for those registered in January or February.***

Enrollment is limited to 6 students per month for July through November and 12 students per month for January and February.

Students will not be able to register for this elective in December, March or April.

A letter grade (H, HP, P, M, F) will be assigned to the submitted case based upon the following criteria:

Usability – Can the case be used with little modification?

Readability – Is the case written in acceptable English and comprehensible? Is the case written as a case, not as a patient's chart?

Completeness – Are all facts, data and exhibits necessary to understand the case included?

Understanding – Is there evidence that the student understands the case and the basic science involved?

Mastery of the basic science underpinnings of the case and their incorporation into the presentation is considered a major requirement of the elective

M-ID-731 Development of PBL Cases in Pharmacology
Credit Hours: 4
Number of Weeks: 4
Available times: Varies (July through May except December)
Student Limit: Open
Primary Faculty: Pharmacology and Experimental Neuroscience Faculty
Cc: lisa.paquette@unmc.edu with course approval

This course is NOT available to visiting students.

M-ID-748 Lit. and Film That Inform Our Understanding of the Human Condition
Credit Hours: 4
Number of Weeks: 4
Available times: April 2021 through March 2022
Student Limit: Min 5 – Max 20
Primary Faculty: Dr. Bud Shaw
Arrange with Lisa Paquette: lisa.paquette@unmc.edu

This course is NOT available to visiting students.

Students read books and watch films that are chosen to reflect the broad roles of physicians as important members of human society

Objectives: Students will be better able to:

- Identify and discuss the philosophical and emotional dimensions of health care practice.
- Relate health care practice to larger moral, social, and public policy concerns.
- Compose and present to the group a well-constructed book review, essay, short story, dramatic scene, poem, or visual representation of one or more themes emerging from the readings and films.

Topics Covered:

Students will read at least four books and watch four films that have won critical acclaim for interpreting the human condition. While some works may not seem directly linked to medical practice or science, all are relevant to the human side of Medicine. Books vary from literary classics to medical memoir, from medical history to fiction, plays to epic poetry.

Previous books include:

Being Mortal, The Immortal Life of Henrietta Lacks, The Hours, Tuesdays With Morrie, W;t: a Play, Hot Zone, Demon in the Freezer, 1947: Where Now Begins, Other Minds: The Octopus, the Sea, and the Deep Origins of Consciousness, Blindness, The English Patient, Being Mortal, .

Previous Films include:

Schindler's List, How to Survive a Plague, Milk, The Hours, Children of Men, The Diving Bell and the Butterfly, The Kindness of Strangers, The Waiting Room, My Octopus Teacher, A Civil Action, The Verdict, The English Patient, The Doctor, Contagion, and Something the Lord Made.

Student Activities:

Student groups will consist of a maximum of 10 and a minimum of 5. Each group will meet four times during the elective to discuss one assigned book and one or two films. The final meeting will require

each student to present their course project. The duration of both the discussion meetings and the final presentations will depend on the number of participants, and generally last 3-4 hours.

Assessment:

Students are expected to attend each meeting and actively engage in discussion. Students will develop a final project relating to the topics discussed, present this to the group as a whole, and forward a hard copy to the faculty. Grades will reflect seriousness of purpose in participation and projects.

M-ID-753 Competent Care for LGBT

Periods Offered: March

Student Limit: * Note: If registration for a course offering is less than the minimum number (3), the course will *not* be offered at that time.

UNMC Faculty - Kitty Dybdall MS, MA, Jim Medder, M.D., and Rajnish Dave, Ph.D.

THIS ELECTIVE MUST BE ARRANGED WITH KITTY DYBDALL (OME)

This course is NOT available to visiting students.

Are you ready to provide competent healthcare for your LGBTQ+ patients across the spectrum? Lesbian, gay, bisexual, transgender, and queer (LGBTQ+) individuals have a set of unique health concerns and problems, including higher rates of depression, suicide attempts, alcoholism, cardiovascular disease, some cancers, and sexually transmitted diseases. Their special needs are often overlooked or ignored due to the invisibility of LGBTQ individuals and their avoidance of routine healthcare due to a real or imagined fear of discrimination and rejection by physicians. Although a significant segment of society is LGBTQ+, physicians receive minimal formal training in their care. The goal of this elective is to provide the specific training needed for physicians to effectively deal with healthcare concerns and to provide medically and culturally competent healthcare to this sexual minority and vulnerable population.

Topics include:

- Health Disparities, Knowing Your Patients/ Welcoming Environment
- Cultural Competency; Sexual Minority, Personal Bias; Bisexuality
- LGBTQ+ and Gender Queer Youth/Coming Out
- Care for LGBTQ+ Couples & Families: Pathways to Parenthood for LGBT People
- Bi-invisibility and their Unique Health Challenges
- Recent Advances in HIV PrEP
- Trans youth and Working with Trans Youth
- Mental Health and Intimate Partner Violence
- Late adulthood & Geriatric Care in LGBTQ+ Patient Population

At the end of this four-week elective, students will be able to:

- Define psychosocial issues and risks of self-disclosure by LGBTQ+ individuals.
- Identify barriers to healthcare for LGBTQ+ individuals and methods to overcome those barriers.
- Demonstrate appropriate history taking and interviewing skills to foster patient trust.
- Identify and successfully address the unique healthcare problems facing LGBTQ+ individuals.

Learning activities include patient care experiences with the LGBTQ+ population, online readings and assignments, seminars, didactics, case/panel discussions, and visits to LGBTQ+ agencies and organizations. Clinical practice opportunities are available.

Visits to various agencies will be arranged and include the following among others:

- Meetings with health care professionals who work with the LGBTQ+ population
- Counseling/testing site experience at NAP (Nebraska AIDS Project)
- Care for those with HIV/AIDS

M-ID-763 **Individualized Research Program**
Credit Hours: 4
Number of Weeks: 4
Available times: Varies (July through May excluding December)
Student Limit: Open
Primary Faculty: Dr. Richard MacDonald

This course is NOT available to visiting students.

If you are interested in pursuing a elective that is not offered in this handbook, permission must be granted by Dr. Richard MacDonald, Senior Elective Coordinator. Please discuss your proposal with him.

Credit under the number (M-ID-763) will only be given for an experience that is NOT listed in this handbook. To design your own elective, you must receive the approval of Dr. Richard MacDonald prior to registration.

Any research project involving an IRB must have IRB approval BEFORE the elective is approved. Please provide a copy of the approval with the protocol number to Dr. MacDonald. When completing the request for waitlist in OASIS you will need to fill out the Scholarly Project information, which includes contact information for your mentor.

NEUROLOGICAL SCIENCES

Chair/Matthew Rizzo, M.D.
Elective Director/ Arun Swaminathan, M.D., arun.swaminathan@unmc.edu
Student Coordinator/ Lori Schuetze, lori.schuetze@unmc.edu
CTS – 2nd Floor
402-559-3341

****NEUR-736 Clinical Neurology Elective**

Periods Offered: Each four weeks

Student Limit: 5

UNMC Faculty - Drs. Arcot, Bertoni, Bhatti, Datta, Diesing, Fayad, Fernandes, Frankel, Gonzalez, Gress, Hellman, Kedar, McLaughlin, Murman, Pedavally, Piccione, Pichler, Rizzo, Seier, Shirani, Stenzel, Swaminathan, Taraschenko, Thaisetthawatkul, Torres-Russotto, Vuppala, and Zabad

Where to Report: Clarkson Doctor's South Tower – 2nd Floor – Department of Neurological Sciences

This senior elective functions as a subinternship in clinical neurology and provides a view of neurology resident life while providing a fully supervised learning environment. This clerkship offers opportunity for participation in the management of acutely ill patients, working closely with supervisory residents and attending physicians. There is no call requirement, but a call experience can be requested by interested students. The rotation includes both inpatient and outpatient experiences, as well as attendance of weekly scheduled conferences.

NEUR-761 Off-Campus Neurology Elective

Periods Offered: Each four weeks

Student Limit: Variable

This course is NOT available to visiting students.

Students interested in pursuing an off-campus neurology elective are required to work directly with the desired site to obtain the outside rotation offer. An off campus request must be completed in the department and with student affairs.

NEUR-790 Clinical Research Elective in Neurology

Periods Offered: Each four weeks

Student Limit: Variable

This course is NOT available to visiting students.

This elective offers students the opportunity to work on a research project under the mentorship of a Neurological Sciences faculty member. The student will gain basic knowledge of the design and conduct of clinical research. The learning objectives are individually agreed upon between the student and the faculty member, and must then be approved by the Elective Director (Dr. Torres). If you would like to participate in this opportunity, please contact your choice of the Neurological Sciences faculty. If you are not sure with whom you would like to work, please contact the Student Coordinator, Arianne Marcoux, to set up a preliminary meeting with the Clerkship Director, Dr. Torres, to discuss your interests and review possible options.

Students who have completed this rotation have had abstracts accepted at national or international meetings, presented posters, and even published articles. This opportunity is helpful to any students interested in research, and particularly to those students interested in pursuing a neurology-related residencies, including Neurology, Neurosurgery, Neuroradiology, Neuropathology, etc.

NEUROSURGERY

Chair: Aviva Abosch, M.D., PhD
Education Committee Chair: Daniel Surdell, M.D.
Student Coordinator: Kellie Devney, kdevney@unmc.edu
Clarkson Doctor's Building South Tower, 8th Floor, Room 81117
402-559-9605

****NSURG-738 Neurosurgery**

Periods Offered: Each four weeks

Student Limit: By arrangement

Where to Report: Kellie Devney, Clarkson Doctor's Building South Tower, 8th Floor, Room 81117

The Department of Neurological Surgery at UNMC offers a clinical clerkship to allow students interested in neurological surgery an opportunity to work with the faculty and residents in all aspects of the neurosurgery service. The goals of these interactions are to increase the medical knowledge of the students in the area of neuroscience, to gain early exposure of high-quality prospective applicants to the field of neurosurgery. The student can become an integral part of the care of our patients as they interact with the faculty and residents. Activities include conferences, case presentation, ICU and ward rounds, observing and assisting in the OR, taking call and outpatient clinics. Medical students will be involved in all aspects of the care of our elective neurosurgery practice, but also will be exposed to our emergent trauma and stroke population. Students can also be introduced to our advanced skull base lab.

The medical students' expectations on the rotation will be refined by the chief residents under the direction of faculty neurosurgeons. In general terms, students are expected to round on the patients and present their findings to the team. They are expected to observe and, where appropriate, take part in neurosurgical procedures. Students are encouraged to take call. They are required to attend weekly conferences and encouraged to pick a topic that interests them and give a 15-20 minute topic presentation.

NSURG-799 Neurosurgery Research

Periods Offered: Each four weeks

Student Limit: By Arrangement

Where to Report: Kellie Devney, Clarkson Doctor's Building South Tower, 8th Floor, Room 81117

This course is NOT available to visiting students.

This elective offers students an opportunity to work with faculty members in clinical investigations of neurosurgical diseases or participate in ongoing bench research projects. Definitions of problems and programs of learning will be decided upon discussion with faculty.

OBSTETRICS AND GYNECOLOGY

Carl V. Smith, M.D., Chair, UT 5248H

Contact Faculty: Tricia Fredericks, M.D.

Undergraduate Coordinator: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

OBGY-710 Advanced Outpatient Obstetrics and Gynecology

Jennifer Griffin, M.D.

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: TBD

Contact: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

This course is NOT available to visiting students.

General obstetrics and gynecologic clinic experience. Conferences are held with the faculty to discuss special problem areas in obstetrics and gynecology. This elective does not include participation in inpatient activities.

Activity	Hours/Week
Rounds	0
Didactic conferences	4
Independent learning	8
Research project	Opportunities available upon request.
Outpatient Clinic	24

****OBGY-720 Advanced Inpatient Obstetrics**

Amie Hollard, M.D.

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: TBD

Contact: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

This is a Nebraska Medical Center Hospital inpatient service at an advanced level emphasizing obstetrics, designed to increase individual competence. There is daily participation in staff seminars and teaching activities. This inpatient experience includes both normal and high-risk obstetrical cases. Students will be involved in antepartum intrapartum, and postpartum care. Call opportunities are available on the M3 schedule. This course meets the Sub-I requirements.

****OBGY-721 Gynecologic Oncology**

Tricia Fredericks, M.D.

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: TBD

Contact: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

A Nebraska Medical Center Hospital service including both inpatient and outpatient activities. Students will evaluate patients in clinics, assist with operative procedures, and participate in daily rounds on gynecologic oncology patients. Students will also participate in conferences including tumor board and GYN cancer conference, and Pathology conference. A presentation on a relevant topic chosen by the student is encouraged during the rotation, or a case report for publication, if time allows. This course meets the Sub-I requirements.

Activity	Hours/Week
Rounds	10
Didactic conferences	3
Independent learning	4
Research project	4
Outpatient Clinic	16
Surgery	18

OBGY-722 Reproductive Endocrinology and Infertility

Stephanie Gustin, M.D.,FACOG

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Heartland Center for Reproductive Medicine – 7308 So. 142nd Street, Omaha, NE

Contact: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

This elective is not available to visiting students.

Students on this rotation will work mainly at the Heartland Center. This is mainly an outpatient service; however, surgical procedures and hospitalized patients make up a portion of the experience. Students will evaluate patients, assist with operative procedures, participate in hospital rounds as indicated and participate in weekly conferences in the Department of Obstetrics and Gynecology. A presentation on a relevant topic chosen by the student is encouraged during the rotation.

Activity	Hours/Week
Rounds	Varies with patient need
Didactic conferences	4
Independent learning	4
Outpatient clinic	24
Surgery	8
Research project	0

OBGY-725 Maternal Fetal Medicine

Dr. Ramzy Nakad at Nebraska Medicine

Dr. Hemant Satpathy at Methodist

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: TBD

Contact: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

A combined Nebraska Medical Center and Methodist Women's Hospital Maternal Fetal Medicine experience. Students will spend 2 weeks at each institution working with outpatient and antepartum patients. Students will work with sonographers and MFM physicians in the Prenatal Diagnostic Center at the Olson Center for Women's Health as well as Methodist Hospital. Students will evaluate patients in high risk clinics and participate in conferences including Perinatal Conference, Grand Rounds, and Case Conferences. Students will learn basic ultrasound skills which will include hands on scanning and one to two genetic counseling appointments with ultrasound each week. A presentation on an ultrasound topic chosen by the student and presented at Perinatal Conference the third or fourth week of the rotation is encouraged.

Activity	Hours/Week
Rounds	8-10
Didactic conferences	5
Independent learning	4-8
Outpatient clinic	16
Research project	Dependent upon student participation

OBGY-760 Off-Campus Obstetrics and Gynecology Elective
Periods Offered: Each four weeks
Student Limit: Must be pre-arranged
Contact: Lauren Luger, lauren.luger@unmc.edu, 402-559-8133

This course is NOT available to visiting students.

Electives are arranged by the student in other geographical teaching settings. Sites for training include other university programs, private hospitals, or residency programs. An Off-Campus Elective Application form must be submitted for this experience.

OPHTHALMOLOGY

Chair: Ronald Krueger, M.D.
Program Director: Shannon Lynch, M.D.
Curriculum Clerk: Arianne Marcoux
Truhlsen Eye Institute – 3902 Leavenworth Street
402-559-1859

****OPHT-720 Clinical Ophthalmology**

Periods Offered: Each four weeks

Student Limit: 1 (2 with approval from Dr. Lynch)

Where to Report: Students will be notified by e-mail prior to starting the rotation. Otherwise, Truhlsen Eye Institute, 3902 Leavenworth Street, 8:00 a.m.

This elective functions as an introductory course to clinical ophthalmology which includes experiences in all areas of general ophthalmologic diagnosis and therapy. This course is appropriate for all Phase III students. Within this broad field, the following areas will be emphasized:

1. Basic ophthalmic history taking and its correlation with the general medical history.
2. Functional evaluation of the visual system including determination of near and distance visual acuity, confrontation visual field, and color vision.
3. Recognition of other testing procedures designed to detect dysfunction of any components of the visual system.
4. Direct examination of the visual system including pupillary exam, measurement of intraocular pressure, and direct ophthalmoscopy.
5. Learning about the use and limitations of the slit-lamp and indirect ophthalmoscopy.
6. Observation of ocular surgical procedures.
7. Identification of the most common causes of blindness.
8. Awareness of the relative urgency of common ophthalmic referrals.

The goal of this program is to lay a firm foundation of basic ophthalmic knowledge and diagnostic skill. There is no call requirement, but a call experience can be requested by interested students. The rotation includes attendance of weekly scheduled conferences and didactics. Students will be expected to give a brief presentation to the course director and fellow learners. Alternatively, they can develop a brief educational video, module, or equivalent from a list of topics. An exam will be given at the end of the rotation based on reading, didactic sessions, and clinical teaching. Evaluation is based on clinical performance, presentation, post-rotation examination, interpersonal skills, and professionalism.

Activity	Hours/Week
Clinical patient care	30-36
Inpatient rounds	Optional
Didactic conferences	4-5
Independent learning	0-1
Research/education project	Optional
Simulation lab/Wet lab	Optional
Surgical Observation	0-5
Meetings with course director	1

****OPHT-721 Advanced Clinical Ophthalmology Sub-Internship**

Periods Offered: Each four weeks

Student Limit: 1 (2 with approval from Dr. Lynch)

Where to Report: Students will be notified by e-mail prior to starting the rotation.

Otherwise, Truhlsen Eye Institute, 3902 Leavenworth Street, 8:00 a.m.

This senior elective functions as a subinternship in clinical ophthalmology which includes experiences in all areas of general ophthalmologic diagnosis and therapy. This course requires prior ophthalmology experience such as successful completion of OPHTH 720, ophthalmology rotation during surgical clerkship, or equivalent experience approved by course director. Within this comprehensive field, the following areas will be emphasized:

1. Ophthalmic history taking and presentation of the case to faculty.
2. Refinement of functional evaluation of the visual system including determination of near and distance visual acuity, confrontation visual field, and color vision.
3. Basic interpretation of advanced testing procedures designed to detect dysfunction of any components of the visual system such as perimetry, OCT, and neuroimaging.
4. Direct examination of the visual system including pupillary exam, measurement of intraocular pressure, direct ophthalmoscopy, slit-lamp, and indirect ophthalmoscopy.
5. Early steps towards generation of a differential diagnosis, recommendation of appropriate testing, and development of a treatment plan.
6. Observation of and participation in ocular surgical procedures.
7. Identification of the most common causes of blindness including recognition of vision threatening and non-vision threatening causes of red eye.
8. Awareness of the relative urgency of common ophthalmic referrals.

The goal of this program is to fortify the foundation of ophthalmic knowledge and diagnostic skill for students planning to apply for ophthalmology residency. There is no overnight call requirement, but students will be required to participate in at least one inpatient consult with the on-call resident during the rotation. The rotation includes attendance of weekly scheduled conferences and didactics. Students will be expected to present at grand rounds to the department. Students will also be expected to develop a brief educational video, module, or equivalent from a list of topics. An exam will be given at the end of the rotation based on reading, didactic sessions, and clinical teaching. Evaluation is based on clinical performance, presentation, educational project, post-rotation examination, interpersonal skills, and professionalism.

Activity	Hours/Week
Clinical patient care	30-36
Inpatient rounds	0-2
Didactic conferences	4-5
Independent learning	0-1
Research/education project	0-1
Simulation lab/Wet lab	0-1
Surgical Observation	0-5
Meetings with course director	1

OPHT-725 International Ophthalmology Elective

Periods Offered: By Arrangement

Student Limit: By arrangement

This course is NOT available to visiting students.

OPHT-760 Off-Campus Elective in Ophthalmology
Periods Offered: Each four weeks
Student Limit: By Arrangement

This course is NOT available to visiting students.

An Off-Campus Elective Application form must be submitted for this. (See Off-Campus Elective Application procedures.)

OPHT-790 Research in Ophthalmology
Periods Offered: By Arrangement
Student Limit: By Arrangement

This course is NOT available to visiting students.

ORTHOPAEDIC SURGERY AND REHABILITATION

Chair/Kevin L. Garvin, M.D.
Academic Coordinator/Matthew A. Teusink, M.D.
Holly White Curriculum Coordinator
Lauritzen Outpatient Center, 4th floor
Phone: 402-559-2258

****ORTH-722 Orthopaedic Surgery**

Periods Offered: Each four weeks

Where to Report: Please call or email Holly White 402-559-2258 or (holly.white@unmc.edu) a week prior to first day to confirm time/location to report

This elective must be pre-arranged with Holly White at holly.white@unmc.edu .

For additional information please contact Holly White.

Student Limit: 7

Black Team (Hand and Upper Extremity) – 1 student

Blue Team (Spine) – 1 student

Gold Team (Adult Reconstruction) – 2 students

Green Team (Trauma) – 2 students

Red Team (Sports/Shoulder & Upper Extremity/Musculoskeletal Oncology) – 1 student

Faculty per team:

Black Team – (Hand and Upper Extremity): Drs. Philipp Streubel, Joseph Morgan and Dan Firestone

Blue Team – (Spine): Drs. Chris Cornett, Scott Vincent, and Emmett Gannon

Gold Team – (Adult Reconstruction): Drs. Kevin Garvin, Curtis Hartman, Beau Konigsberg, and
Beau Kildow

Green Team – (Trauma): Drs. Matthew Mormino, Justin Siebler and Sara Putnam.
(Foot and Ankle) Dr. Alex Sawatzke

Red Team – Dr. Matthew Tao (Sports), Dr. Matthew Teusink (Shoulder and Upper Extremity), and
Dr. Sean McGarry (Musculoskeletal Oncology)

Objectives:

- Learn clinical evaluation of musculoskeletal disease in outpatient setting
- Understand basic principles of surgical treatment of orthopaedic conditions
- Gain experience in management of orthopaedic patients in the inpatient setting
- Become familiar with literature on one orthopaedic topic of interest and present “grand rounds” style presentation on this topic

Clinical Expectations:

Student is to independently interview and examine patients in clinic. Present cases to staff in resident style.

- Minimum 4 presentations per rotation

Operating Room Expectations:

The student is to read ahead and come prepared for cases.

- Student should be familiar with surgical approaches and anatomy specific to team and cases.

Conference Schedule:

- Students will attend all resident and didactic teaching conferences
- Students will attend five medical student focused didactic lectures, one for each service given by faculty members
- Students will present case-based presentation on topic of choice to faculty and house staff
 - 10 min. max.
 - General outline
 - 3 min. case presentation with images
 - 5 min. background and literature review
 - 2 min. discussion

Activity	Hours/Weeks
Rounds	5
Didactic conferences	10
Independent learning	Varies
Clinic	16-20 hours
Surgery	16-20 hours

ORTH-723 Pediatric Orthopaedic Service

Periods Offered: Each four weeks

Where to Report: Varies – Contact Holly White at holly.white@unmc.edu or 402-559-4219 for details.

This elective must be pre-arranged with Holly White at holly.white@unmc.edu .

For additional information please contact Holly White.

Student Limit: 1

This course is NOT available to visiting students.

The purpose of this course is to introduce the interested student to the intricacies and problems associated with care of the child with musculoskeletal problems. Pediatric Orthopaedic Surgery has become a unique subspecialty of orthopaedics, and thus those students interested in further study of the care of children and/or orthopaedics will find this rotation most beneficial.

Activity	Hours/Week
Rounds	4
Didactic conferences	3
Independent learning	6
Research project	Variable
Clinic	16-20
Operating Room	16-20

ORTH-762 Off-Campus Orthopaedic Surgery Elective

This course is NOT available to visiting students.

An Off-Campus Elective Application form must be submitted for this experience. Holly White must sign off on the off-campus elective application form on behalf of orthopaedic surgery.

ORTH-799 Orthopaedic Surgery Research

This course is NOT available to visiting students.

This rotation is no longer available unless special arrangements are made with a UNMC Orthopaedic Surgery Faculty Member and our Clinical Research Nurse, Dana Schwarz. If interested in an orthopaedic surgery research month, please contact the appropriate faculty member and Dana Schwarz (phone: 402-559-4167 or dschwarz@unmc.edu) to schedule.

OTOLARYNGOLOGY – HEAD AND NECK SURGERY

Chair: Dr. Dwight T. Jones

Resident Program Director: Dr. Christie Barnes

Assistant Resident Program Director: Dr. Elizabeth Bradford Bell

Medical Student Education Director: Dr. Katie Geelan-Hansen

Educational Program Coordinator: Brynn Lane: brlane@unmc.edu
University Tower 3102

The Otolaryngology elective allows students to become more acquainted with the scope of this specialty practice. Otolaryngology problems are very common in a general medical practice, this can range from ear infections to head and neck cancers. It is hoped that the time spent in this department will teach you a systematic approach to the office and surgical management of ENT problems.

Your responsibility while on the elective will be to help deliver patient care, as this is how you will learn. This can come in many forms and the residents will guide you. We expect you to participate in rounds, in clinics and in the operating room, each day will be different. We also ask that you participate in hospital consults and emergency department consults.

You are expected to be present for both morning and evening rounds, as well as all scheduled departmental teaching conferences. The latter deals with basic medicine, anatomy and physiology related to the head and neck area. Adequate time for reading is available and it is suggested that you utilize this for directed reading on a specific topic or on a patient case.

Patient care and responsibility during the elective will depend upon the available material, as well as your interest and initiative. Your primary responsibility is clinical but as surgical cases are assigned you will be expected to follow the patient, including observation in the operating room. Pediatric otolaryngology experience is also available at Children's Hospital and can be arranged for those interested. Your experience will include both inpatient and outpatient exposure.

****ORL-720 Otolaryngology Clerkship**

Staff: All faculty in the department

Periods Offered: Each four weeks

Student Limit: 4– University Hospital

Where to Report: Please contact Brynn Lane: brlane@unmc.edu at least 1 week prior to the start of the rotation.

The student is closely involved with all facets of Otolaryngology. Evaluations of patients, diagnostic considerations and management approaches are emphasized. The student will participate in all the activities of the department, including all clinical responsibilities, operations, and formal teaching conferences.

Activity	Hours/Week
Rounds	5
Didactic conferences	3
Independent learning	5
Research project	0
Independent patient care	5
Surgery	10-20

ORL-760 Off-Campus Elective in Otolaryngology
Periods Offered: Each four weeks by Arrangement
Student Limit: By Arrangement

This course is NOT available to visiting students.

The student may choose to spend elective time in Otolaryngology off-campus. Opportunities both within Nebraska as well as other departments should be discussed and arranged with the approval of the Otolaryngology staff. An Off-Campus Elective Application form must be submitted for this experience. (See Off-Campus Elective Application procedures.)

ORL-799 Research in Otolaryngology
Periods Offered: Each four weeks by Arrangement
Student Limit: By individual arrangement with Kristy Carlson, PhD (kristy.carlson@unmc.edu).

This course is NOT available to visiting students.

If interested in the Otolaryngology Research Elective, please contact Dr. Kristy Carlson (kristy.carlson@unmc.edu).

PATHOLOGY AND MICROBIOLOGY

Chair/Dr. Steven Hinrichs
(Clinical)/Dr. Subodh Lele
Educational Programs Coordinator: Anna Nordhagen
3545 MSB, anna.nordhagen@unmc.edu
402-559-7212

Students must make arrangements with Anna Nordhagen (Room 3569 MSB, 402-559-7212) before signing up for ANY Pathology electives.

**PAMM-720 Anatomic Pathology
(Includes Surgical Pathology, Cytopathology, and Hematopathology)
Pathology Faculty
Periods Offered: Each four weeks
Student Limit: 3 (By Arrangement)
Where to Report: Room 3545 Medical Sciences Building**

The M4 students enrolled in this program rotate through the following four divisions of the department: Surgical Pathology, Cytopathology, Hematopathology and Autopsy Pathology. The pathology faculty, fellows and residents teach and supervise the M4 students during this experience. The program duration for each M4 student is one month. We typically take three M4 students each month and can in some situations expand the program to accommodate 1-2 additional students. Students spend a week on each of the three services (Surgical Pathology, Cytopathology, and Hematopathology) with the option of observing an autopsy at any time during the rotation.

While on the surgical pathology service, the students spend half of their time in the gross room assisting the pathology resident in the gross examination and processing of surgical specimens. They spend the other half of their time microscopically examining surgical specimens with a staff pathologist and resident. While on the cytology service, the student is involved with the microscopic examination of both gynecologic (GYN) and non-GYN cytology specimens with a staff pathologist and in observing fine needle aspirations (FNA) performed by staff pathologists. Students also participate on the autopsy service where they assist the resident pathologist in performing autopsies. The students are expected to attend all of the 8-9 a.m. resident teaching conferences. The students are also expected to attend one interdisciplinary conference per week. At the end of the rotation, the student is required to give a 15-20 minute presentation to the residents and staff pathologists on an anatomic pathology topic of their choice. Evaluation is based on attendance and participation in the rotation activities and conferences as well as on case presentations and the formal presentation at the end of the rotation. The program director is Dr. Subodh Lele.

Activity	Hours/Week
Rounds	0
Didactic conferences	5
Independent learning	8
Research project	0
Independent patient care	0
Gross & Microscopic Examination of specimens	25
Preparation of required Presentation	3
Participation in Interdisciplinary Conferences	1

PAMM-730 Laboratory Medicine for The Practicing Physician
Pathology Faculty: Drs. Aleh Bobr & Ana Yuil-Valdes
Periods Offered: Each four weeks
Student Limit: 5

This month long rotation is designed to give all medical students practical education in, be better consumers of, and make more effective use of laboratory services, regardless of their chosen specialty. Throughout the rotation, students will be exposed to the basics of how laboratory tests are done, common sources of error, an overview of office laboratory testing, how to evaluate the utility of new laboratory tests, and the critical role that pathologists and other laboratory professionals play in patient care. Instruction will occur through the lens of practical clinical cases via a mixture of didactic lectures, small group activities, and working with a pathologists that outline the gamut of services included within anatomic and clinical pathology. Students will be evaluated by their engagement in group activities, performance on an end-of-rotation assessment, a short presentation, and reflective journaling.

PAMM-760 Off-Campus Pathology Elective
Periods Offered: Each four weeks by Arrangement with Dr. Lele

This course is NOT available to visiting students.

An Off-Campus Elective Application Form must be submitted for this experience.

PAMM-799 Special Topics

Pathology Staff

Periods Offered: Each four weeks by Arrangement with Dr. Lele and the Staff Pathologist in charge of the specialty area

Student Limit: 1 per specialty

Visiting Students MUST apply through VSAS and may add a specialty interest by attaching a document in VSAS with their selection. DO NOT CONTACT STAFF.

Students interested in specific aspects of pathology or desiring a background in pathology for a clinical specialty may undertake intensive study with the staff pathologist(s). The department faculty has diverse interests to compliment the needs of most students. These rotations may be tailored to include clinic-pathologic study, or basic research.

Students will be expected to attend appropriate resident conferences and interdisciplinary conferences related to the specialty area they are studying as agreed upon by their supervising faculty. Independent study may also be arranged with pathology faculty not listed here.

Specialty

Cardiovascular Pathology
Clinical Chemistry
Cytology
Dermatopathology
ENT
Flow Cytometry
Gastrointestinal Pathology
Gynecologic and Breast Pathology
Hematopathology
Lung
Microbiology
Molecular Pathology
Neuropathology
Public Health Microbiology
Renal Pathology
Soft Tissue
Transfusion Medicine
Transplantation Pathology
Urologic Pathology
Virology

Staff

Dr. Radio
Dr. Bobr
Drs. Baker, Lele, Radio, and Yuil-Valdes
Dr. DiMaio
Drs. Baker and Swanson
Dr. Pirruccello and Greiner
Drs. Lazenby, Talmon, Cohen, and Swanson
Drs. Lele and Baker
Drs. Greiner and Qureishi
Drs. Lele, Swanson and Baker
Drs. Fey (Director), Hinrichs, and Iwen
Drs. Cushman-Vokoun, Cox, Cathcart, and Greiner
Drs. Chen and Cathcart
Drs. Iwen, Fey, and Hinrichs
Drs. Foster and Talmon
Drs. DiMaio and Lauer
Drs. Koepsell, Bobr, and Williams
Drs. Radio, Talmon, Swanson, Fisher, and Markin
Dr. Lele
Dr. Hinrichs

PEDIATRICS

Chair/Dr. Kari Simonsen, M.D.

Director, Undergraduate Medical Education: Dr. Nathan Gollehon

Danielle Wilson-Baxter, Clerkship and M4 Coordinator, Room 5109 UT, 402-559-2274,
dwilsonb@unmc.edu

****PEDS-710 Pediatric Palliative Care (Sub-I)**

Dr. Patrick Lloyd

Periods Offered: June, August, and January

(you will need to be approved to take this course by writing a paragraph stating your interest in palliative medicine)

Student Limit: 1

This course is NOT available to visiting students.

Palliative care is an approach to care that improves the quality of life of pediatric patients and their families facing the challenges associated with life-threatening illness, through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of distressing symptoms to include pain (inclusive of physical, psychosocial and spiritual). The learner will be exposed to the evidence-base of palliative care to include goals of care conversations, shared decision-making models, and advanced care planning; integrative and complementary medicine modalities; caregiver support; bereavement and staff debriefings; and end of life symptom management within an interdisciplinary team approach. This four-week rotation provides learners with a team-based, inclusive pediatric palliative care experience with attentiveness to individualizing the patient care and research/academic learning based on the learner's skills and interests (for example – medical students primarily interested in adult medicine are still warmly welcomed and the team will foster translating the learning into adult-health-models).

Activities:

Literature searches

Readings

Patient interaction

Journal club presentation

****PEDS-711 Outpatient Pediatrics Sub-Internship**

Drs. Tina Scott Mordhorst, Hannah Donaldson, Natalie Fleming, and Shannon Godsil

Periods Offered: Each four weeks

Student Limit: 1

**Contact: Danielle Wilson-Baxter, M4 Curriculum Coordinator, Room 5109 UT, 402-559-2274,
dwilsonb@unmc.edu**

Prerequisite: By Invitation Only and Matching in Pediatrics or Medicine/Pediatrics

This course is NOT available to visiting students.

This senior pediatric elective is an opportunity for medical students to receive hands-on experience in a wide variety of outpatient pediatric patients. Students will function as a sub-intern, evaluating and managing common outpatient pediatric diagnosis, conducting well-child visits, and educating patients and their caregivers.

Activity	Hours/week
Rounds	30-35 hours
Didactic conferences	2 hours
Independent learning	4 hours

PEDS-713 Under Represented in Medicine

Dr. Nathan Gollehon

Periods Offered: Each four weeks

Student Limit: 1

The Underrepresented in Medicine Pediatric elective is designed to provide senior medical students who are traditionally underrepresented in medicine the opportunity to partner with pediatric faculty at UNMC, while also allowing exploration of clinical pediatric experiences at the University of Nebraska Medical Center. This new course pairs experiences in traditional "phase 3" electives with structured mentorship, self-reflection, and exploration of community organizations serving underrepresented populations in the Omaha metropolitan area.

Student's time will be divided between 4 primary activities:

1. The foundation of the course will be clinical experiences in traditional senior medical student Pediatrics rotations. Students will choose among: Inpatient sub-internship, PICU, NICU, pulmonology, cardiology, nephrology, neurology, gastroenterology, hematology/oncology, genetics & metabolism, endocrinology and infectious disease. Approximately 70% of students' time will be in the traditional clinical setting.
2. Students will engage in structured mentorship with department faculty focused on career development, identifying areas of clinical and academic interest, and self-reflection. (approximately 10% of students' time)
3. Traditional didactic teaching (approximately 10% of student's time)
4. Directed study – students will engage with community organizations that focus on health equity and underserved populations. Work will be largely independent study and reflective writing. (approximately 10% of students' time)

PEDS-722 Pediatric Cardiology and Cardiovascular Disease

Dr. Jeff Robinson

Contact Priscilla Phillips, 402-955-4321, pphillips@childrensomaha.org

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Cardiology Offices – 4th Floor Pavilion, Children's Hospital and Medical Center

This course is NOT available to visiting students.

This elective is intended for students desiring to further their knowledge of congenital heart disease. It should be especially useful for those who will practice pediatrics, family medicine, thoracic surgery or internal medicine. The student on Pediatric Cardiology spends time in the pediatric outpatient clinic with each of the several pediatric cardiologists on faculty. The average number of residents on the elective is two per month. There are over 1,200 outpatient visits to the pediatric cardiology clinic yearly, of which 480 patients are new. There is an average of 5 or 6 outpatient sessions per week with approximately 8 patients per session. The student sees the patient simultaneously with the staff cardiologist. The student on the elective will be required to research a cardiology topic in-depth and deliver a 20-minute oral presentation to the cardiology staff.

Activity	Hours/Week
Rounds (Clinic)	33
Didactic conferences	5
Independent learning	2
Research project	0
Independent patient care	0

****PEDS-724 Pediatric Emergency Medicine (Sub-I) (Ambulatory)**

Dr. Christian Oarhe

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Pediatric Emergency Department/Urgent Care at Children's Hospital

Please contact Dr. Oarhe, coarhe@childrensomaha.org, Elective Director

This course is NOT available to visiting students.

This four-week elective will provide you with opportunities to assess, evaluate, and support patients and families in a pediatric emergency room or pediatric urgent care setting. Students will work with attending physicians to evaluate patients in the emergency room and urgent care centers. Students will be responsible for documentation and order entry. They will communicate to patients and families diagnostic findings and various treatment options that fit within their social and cultural context. Learning topics will be explored through assigned readings and teaching sessions.

Activity	Hours/Week
Shifts	12, 8-hour shifts
Research Project	0 hrs/wk
Didactic Conferences	2 hrs/wk
Independent Patient Care	0 hrs/wk
Independent Learning	6 hrs/wk

****PEDS-725 Pediatric Critical Care Sub-Internship**

Dr. Lindsay Blick

Periods Offered: Each four weeks

Student Limit: 1

Contact: Danielle Wilson-Baxter, M4 Curriculum Coordinator, Room 5109 UT, 402-559-2274,

dwilsonb@unmc.edu

This course is NOT available to visiting students.

Senior pediatric elective is an opportunity for medical students to receive hand-on experience functioning as a sub-intern in the care of critically ill pediatric patients at Children's Hospital. This will be done under the guidance and supervision of the senior pediatric residents and attending physician. The student will be expected to take in-house night call. Weekly didactic sessions occur on Wednesday afternoons. Available Times: Each 4 weeks July - June.

Activity	Hours/Week
Rounds (Clinic)	70
Didactic conferences	4
Independent learning	0
Research project	0
Independent patient care	0

PEDS-726 Pediatric Hematology Oncology and Bone Marrow Transplantation

Dr. James Harper

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: T.B.A.

This elective in Pediatric Hematology/Oncology and Bone Marrow Transplantation will encompass the activities of the program at both the University of Nebraska Medical Center and at Children's Memorial Hospital and Medical Center-Omaha. One half of the month is spent at each location. During the UNMC/NM block you will round on BMT patients, see new Hematology/Oncology consults and participate in the Hem/Onc and BMT clinics. The block spent at CHMC is in the outpatient clinic. You will be asked to see new consults and to participate in outpatient activities.

Students desiring to spend additional time can have the opportunity to participate in clinical and laboratory research or have in-depth involvement in the transplantation program.

Activity	Hours/Week
Rounds	30
Didactic conferences	5
Independent learning	5
Research project	0
Independent patient care	0

PEDS-727 Human Cytogenetics

Dr. Jennifer Sanmann

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Human Genetics Office (HBM 3083)

Contact: Michelle Hess (mmhess@unmc.edu)

The goal of this course is to familiarize students with clinical genetic testing procedures, including conventional cytogenetics, fluorescence in situ hybridization (FISH), microarray, and sequencing, across a range of areas (prenatal, postnatal, and oncology). Students will become familiar with nomenclature, analysis, and interpretation of genetic studies, and will be introduced to the diagnostic and/or prognostic utility of each assay. At the end of the rotation, the student should appreciate basic safety requirements and compliance regulations of a clinical laboratory, be familiar with assay-specific specimen requirements, be able to describe both the clinical utility and the limitations of various genetic assays, and understand reporting nomenclature and clinical interpretations across the spectrum of genetic tests. Students will also present a short report and discussion of a laboratory technique, result, or diagnosis at the conclusion of the rotation.

Activity	Hours/Week
Rounds	20 (laboratory)
Didactic conferences	3
Independent learning	12
Research project	5

****PEDS-728 NICU (Sub-I)**

Dr. Ann Anderson-Berry

Periods Offered: Each four weeks

Student Limit: 2 – 3 with approval from Dr. Anderson-Berry

Where to Report: Neonatal ICU (The Nebraska Medical Center)

This course is NOT available to visiting students.

Students will attend high risk deliveries complicated by prematurity, multiple gestation, meconium staining, congenital anomalies, and perinatal depression as well as routine cesarean sections. The goal is to provide students with exposure to neonatal resuscitation as outlined by the AAP and AHA. Students are expected to check out the NRP Guidelines and know the sequence of events that take place during resuscitation. Students are expected to perform complete history and physicals including evaluation of the maternal obstetrical/medical history with subsequent development of a differential diagnosis, evaluation and treatment plan. Students will be involved in the daily evaluation, care and formulation of treatment plans of neonates in the NICU. This includes “work” rounds as well as formal rounds with the staff Neonatologist, House staff, and nursing staff during the week and weekends. The student will be exposed to many of the neonatal problems requiring NICU care; i.e., prematurity, respiratory distress, congenital anomalies, perinatal depression, anemia, significant hyperbilirubinemia, hypoglycemia, sepsis, etc. The student will also be exposed to some of the outcomes of neonatal intensive care.

Activity	Hours/Week
Rounds	40
Didactic conferences	3-4
NICU Topic Presentation	1
Independent learning	0
Research project	0
Independent patient care	0

PEDS-729 Pediatric Endocrinology

Dr. Monica Cabrera

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Pediatric Endocrinology Clinic, 8200 Dodge Street

This elective provides the student with experience in diagnostic problems of growth, pubertal development, thyroid dysfunction and adrenal disorders in both inpatient and outpatient settings. Further experiences can be gained in disturbances of carbohydrate metabolism. The student will be responsible for the daily care of inpatients, endocrine consultations and implementation of tolerance tests with the supervision of the staff.

Activity	Hours/Week
Rounds/Clinic	40
Didactic conferences	2
Independent learning	0
Research project	0
Independent patient care	0

PEDS-730 Pediatric Gastroenterology

Dr. Ruben Quiros

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Children's GI Clinic : Jessie Coyer at jessie.coyer@unmc.edu

This course is NOT available to visiting students.

The student will:

- Become broadly familiar with gastrointestinal pathophysiology in infants, children and adolescents;
- Assist in evaluation of patients with gastrointestinal, hepatobiliary and nutritional disorder;
- Participate in gastrointestinal procedures; and
- Gain some expertise in interpretation of gastrointestinal histopathology.

Students will learn to evaluate pediatric patients with chronic and infectious diarrhea, abdominal pain, constipation, malabsorption, inflammatory bowel disease, gastrointestinal infections, Hirschsprung's disease, neonatal cholestasis, growth failure, chronic vomiting and liver disease. Students will develop an understanding of gastrointestinal physiology and development. Basic principles of enteral and parenteral nutrition in Pediatrics will be reviewed. The student will participate in the care of both hospitalized and ambulatory patients at Children's Hospital and Outreach Clinics. The student may choose to emphasize inpatient and outpatient activities based upon his/her experiences and individual career goals and needs. Teaching rounds are performed on a daily basis. The medical student would work closely with pediatric house officers as well as the attending. No night call will be taken by the student.

Activity	Hours/Week
Rounds	35
Didactic conferences	5
Independent learning	4
Research project	0
Independent patient care	0

PEDS-731 Genetics and Metabolic Disease

Dr. Lois Starr

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Call 402-559-3602 for instructions

The student will be helped to develop skills in diagnosing, managing and counseling patients with inherited and acquired disorders of metabolism, genetic defects and congenital malformations. At the end of the rotation, the student should:

- Be able to identify the more common pediatric syndromes and associations;
- Be familiar with major etiologic categories of congenital anomalies;
- Be adept at obtaining a family history (3rd generation pedigree);
- Be familiar with the unique features of a dysmorphicologic examination;
- Understand the nature of non-directive counseling;
- Know the major psychosocial, ethical, and legal implications of genetic testing and counseling; and
- Present a short (10 minute) report and discussion of a genetic disorder, metabolic condition or congenital anomaly.

Activity	Hours/Week
Rounds/Clinics	22
Didactic conferences	4
Independent learning	8
Research project	6

PEDS-732 Pediatric Pulmonology**Dr. Heather Thomas****Periods Offered: Each four weeks****Student Limit: 1****Where to Report: E-Mail Heather Thomas, M.D. at hthomas@childrensomaha.org**

The Pediatric Pulmonology elective consists of four one week blocks including inpatient care, outpatient care, procedures and a custom week. The student will work directly with the inpatient team to provide care and consults to patients with a variety of respiratory issues from asthma to CLD requiring trach/vent support to complicated pneumonia to cystic fibrosis. While in the clinic the student will work directly with the attending pulmonologist to evaluate and manage a variety of issues. The procedure week allows the student to participate in bronchoscopy in the OR, interpretation PFTs, sleep studies, ventilator manipulation and airway clearance techniques. During the custom week the student is allowed to design his/her own learning opportunity.

Activity	Hours/Week
Rounds	36
Didactic conferences	5
Independent learning	1
Research project	1
Independent patient care	0

PEDS-733 Allergy/Immunology**Dr. Hana Niebur, Russell Hopp, and Joel Van De Graaff****Periods Offered: Each four weeks****Student Limit: 1****Contact Person: Dr. Niebur – hana.niebur@unmc.edu****This course is NOT available to visiting students.**

This elective will include active involvement in patient care in the allergy/immunology clinic and inpatient setting (70%), lecture and didactics (15%), learning about diagnostic techniques in the Clinical Flow Cytometry Laboratory (10%), and independent learning (5%). Methods will include textbooks, journal articles and computer modules.

Evaluation:

The global performance evaluation of patient care and systems-based practice will account of 75% of the grade. The oral presentation will account for 10% of the grade. The post-test will account for 15% of the grade with 70% minimum to pass and 90% or above eligible for Honors.

PEDS-734 Clinical Pediatric Neurology**Dr. Sookyong Koh****Periods Offered: Each four weeks****Student Limit: 1****Where to Report: Reporting instructions are sent by e-mail prior to the start of the rotation.**

This course offers students clinical pediatric neurology experience with specific focus on evaluation, diagnosis and treatment of the neurological diseases in children from conception to the adult state under close supervision of the faculty. The goal of this four-week elective is to provide the student with the clinical experience of evaluating children with neurological disorders and thereby acquire skills necessary to perform the pediatric neurologic exam and to develop a diagnostic and therapeutic approach to common neurologic problems in children.

Activity	Hours/Week
Rounds	35
Didactic conferences	5
Independent learning	2
Research project	0
Independent patient care	0

****PEDS-735 Infectious Disease (Sub-I)**

Dr. Kari Neemann

Periods Offered: Each four weeks

Student Limit: 1

Contact LaTryce Anderson (laanderson@childrensomaha.org) 1-week prior to rotation

Where to Report: 2nd Floor of IHE in the southeast corner

This course is NOT available to visiting students.

This elective provides the student with an opportunity for in-depth study of clinical and laboratory aspects of infections in children. Students will be expected to read a course syllabus and will be asked to compose a 10-15 minute PowerPoint presentation of a patient case and brief review of the literature that will be presented to ID staff at the end of the rotation. A rotating lecture series from different members of the staff of the division on high-yield infectious diseases topics is provided throughout the rotation. Students will learn to evaluate neonates, infants and children with a wide range of infectious diseases. This is primarily an inpatient experience with about 10% of patients seen in the outpatient clinic. Students are required to see all new consults initially with residents or fellows as available. The students perform a complete workup and assessment, then present their findings and recommendations to the attending physician on daily rounds. Students are responsible for monitoring all ongoing microbiology test/results. Students are required to do considerable outside reading on their patients' illnesses. A selected reading list is provided to all students in Canvas at the beginning of the rotation and students are responsible for all the material therein.

Activity	Hours/Week
Rounds	40
Didactic conferences	5
Independent learning	5
Research project	0
Independent patient care	0

PEDS-736 Developmental Pediatric Practicum

Dr. Howard Needelman

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: T.B.A.

This elective will provide the student with an orientation to Developmental Behavioral pediatrics through both clinical and didactic experiences. The student will observe comprehensive interdisciplinary patient evaluations and summary conferences, longitudinal patient follow-up, attend core curriculum presentations, and receive experience in the use of diagnostic screening techniques such as the Bayley Scales of Infant Development. The student will become familiar with the role of the physician in the diagnosis, evaluation and clinical care of children and youth with developmental disabilities and chronic handicapping conditions. An emphasis will be placed on teaching the need for and how to work with non physician members of the child and family's care team, including school personnel.

Activity	Hours/Week
Rounds	30
Didactic conferences	5
Independent learning	10
Research project	2
Independent patient care	0

PEDS-741 Pediatric Global Health Clinical Elective

Dr. Shirley Delair

Periods Offered: Each four weeks

Student Limit: Variable

Where to report: Shirley.delair@unmc.edu

You must contact Dr. Delair prior to registering for this course.

This course is NOT available to visiting students.

The UNMC Pediatric Global Health Clinical Elective provides medical students the opportunity to gain insight into pediatric healthcare delivery during a 4-week rotation in a low and middle income country.

Course objectives may vary according to sites where students travel to, however, all rotations will explore the relationship between health and the social determinants of health, major causes of morbidity and mortality in the areas students are working as well as an exploration of the healthcare delivery strategies in that setting.

PEDS-742 Pediatric Nephrology

Dr. Teri Mauch

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: teri.mauch@unmc.edu

The student will become familiar with pediatric aspects of genito-urinary tract disease; specifically;

- Medical management of congenital renal or G-U anomalies;
- Acute and chronic urinary tract infections;
- Evaluation of asymptomatic proteinuria and hematuria including urine sediment examination;
- Evaluation and therapy of hypertension;
- Medical management of acute or chronic renal failure including dialysis
- Management of acute or chronic glomerulonephritis.

The medical student will receive journal articles regarding common pediatric nephrology problems. Reading of pertinent sections of current pediatric textbooks is also recommended. Independent research and reading regarding nephrology patient problems will be expected.

Activity	Hours/Week
Rounds	30
Didactic conferences	2
Independent learning	8
Research project	0
Independent patient care	0

PEDS-750 Honors Pediatrics

Dr. David Finken

Periods Offered: July, October, and March

Student Limit: 8

Where to Report: Dr. Finken’s Office

Prerequisite: Matching in Pediatrics or Medicine/Pediatrics

This course is NOT available to visiting students.

The purpose of this rotation is to engage the student interested in pediatric medicine in a variety of activities that will improve the student’s ability to evaluate pediatric problems and formulate a thorough problem list, differential diagnosis for each problem, and a logical management plan. Additionally, the student will gain experience that will prepare them for a pediatric residency. This rotation is geared toward self-learning and improving one’s ability to think critically.

These general objectives will be achieved through the following activities or tasks:

- Case tutorials with Dr. Finken;
- Attending conferences such as the Patient Management Conference and Pediatric Grand Writing a reflection paper
- Develop a plan to maintain and foster personal happiness and balance during residency by discussion and reading “The Intern Blues”

Activity	Hours/Week
Tutorials	10
Didactic conferences	3
Independent learning	5
Paper	1

****PEDS-751 Pediatrics Subinternship (wards)**

Wards: Dr. Jason Burrows (CHMC , Dave Finken (UNMC)

Periods Offered: Each four weeks

Student Limit: 2: 1 at CHMC and 1 at UNMC per month

Where to Report: Information will be e-mailed prior to the first day.

Prerequisite: By Invitation Only and Matching in Pediatrics or Medicine/Pediatrics

This elective is NOT available to visiting students.

This senior pediatric elective is an opportunity for medical students to receive hands-on experience in a wide variety of hospitalized pediatric patients. The student will learn how to assess, diagnosis, and create a management plan for acutely ill children, managing day-to-day advancements in care, and safely discharging hospitalized patients. This includes working with a multidisciplinary team to deliver high quality care. Students are expected to develop skills in communication and triage as the primary contact for nursing staff, consultants, or other medical team members as well as present patients on rounds or admission, document notes as part of the official medical record, place orders in the EMR, and safely hand off patients to the incoming medical team. The sub-intern may have the opportunity to supervise junior clerks on the wards. Curriculum will support students in developing individual learning goals and plans to foster success during this rotation and build skills to support being a life-long learner.

Activity	Hours/Week
Patient Care	~60 hrs/week
Didactic conferences	~4 hrs/week
Independent learning	~4 hrs/week

****PEDS-760 General Pediatric Preceptorship**
Periods Offered: Each four weeks
Student Limit: By Arrangement

This course is NOT available to visiting students.

Pediatricians throughout the state have expressed an interest in having medical students spend four or more weeks with them in their private office. You must contact the preceptor on an individual basis to reserve a time for this service.

A list of preceptors is available in the Department of Pediatrics from Danielle Wilson-Baxter at 402-559-2274.

****PEDS-764 Off-Campus Pediatrics Elective with University Affiliation**
Periods Offered: Each four weeks
Student Limit: None

This course is NOT available to visiting students.

Senior students may request credit for any off-campus program, which offers unusual opportunities in clinical or investigative pediatrics. Advance departmental approval is required. An Off-Campus Elective Application form must be submitted for this experience. (See Off-Campus Elective Application procedures.)

Contact Danielle Wilson Baxter to arrange, Room 5109 UT, 402-559-2274, dwilsonb@unmc.edu

****PEDS-766 Off-Campus Pediatrics in Non-University Location**
Periods Offered: Each four weeks
Student Limit: None

Same as PEDS-764 exception for location

This course is NOT available to visiting students.

PEDS-796 Pediatric Research
Staff
Periods Offered: Each four weeks
Student Limit: By Arrangement

This course is NOT available to visiting students.

A student interested in participating in an ongoing active research area within the Department of Pediatrics may arrange with the appropriate faculty to devote an elective month to laboratory investigation. By registering for the Pediatric Research elective and a related clinical subspecialty elective in consecutive months, the student could arrange a flexible program permitting simultaneously enrolling for a graduate level course in a related basic science subject.

Contact Danielle Wilson Baxter to arrange, Room 5109 UT, 402-559-2274, dwilsonb@unmc.edu

PHYSICAL MEDICINE AND REHABILITATION

Chair: Samuel Bierner, M.D.

Undergraduate Program Coordinator: Kayla Zaloudek

****PMR-710 Clinical Elective in Physical Medicine and Rehabilitation**

Periods Offered: Each four weeks

Student Limit: 2

Staff: Drs. Bierner, Anderson, Weaver, Voto, and Choi

Contact Person: Kayla Zaloudek: kayla.zaloudek@unmc.edu

Course Objectives:

Physical Medicine and Rehabilitation (PM&R or physiatry) is a medical specialty concerned with diagnosis and treatment of functional impairments in children and adults involving the neurological and musculoskeletal systems.

This Clinical Elective introduces students to the principles of PM&R at Rehabilitation Centers across the metro area to include experiences in both inpatient and outpatient settings at Madonna Rehabilitation Hospital, Nebraska Medicine, and/or Children's Hospital and Medical Center.

Rotation will include comprehensive rehabilitative care of adults and children with major disabling illness or injury, in which students will write history and physical assessments, give oral presentations, and discuss information learned about the patient's diagnosis and functional impairments. Students will learn to perform an excellent neurological and musculoskeletal examination to identify functional deficits; will learn principles of physical and occupational therapy treatments for mobility and activities of daily living, and speech therapy evaluation of language and swallowing. Mandatory components of this rotation will be oral case presentations to the attending, written history and physical submitted for critique, attendance at all journal club and teaching conferences, and 70% passing score on written test based on syllabus.

Goals and objectives for the PM&R Elective are:

1. Define appropriate types of patients for inpatient comprehensive rehabilitation.
2. Give examples of standard methods for assessment of function and their relationship to common diseases and injuries.
3. Demonstrate ability to perform a neurological and musculoskeletal physical examination appropriate to the setting and describe the functional impairments you identify from this examination.
4. Distinguish the role of each discipline of the multidisciplinary rehabilitative team and give examples of how each team member contributes toward the patient's care plan for return to the community.
5. Identify how electrodiagnostic examination can assess disorders of the peripheral nervous system.

PSYCHIATRY

Chair: Howard Liu, M.D.

CST Director: Dana Raml, M.D.

Clerkship Director: Sharon Hammer, M.D.

Undergraduate Program Coordinator: Kevin MacCarthy, Poynter Hall, 6th floor, room 6030

It is strongly recommended that students select electives in areas other than that in which they have had previous clerkship experience. Students needing assistance in selecting electives and/or career planning should contact the Program Coordinator at kevin.maccarthy@unmc.edu to schedule an appointment with Dr. Dana Raml.

All electives must be pre-arranged with the Program Coordinator through psychmeded@unmc.edu and requested through OASIS.

PSYC-718 Stress Reduction Techniques for the Practicing Clinician

Sites: UNMC Main Campus

Periods Offered: July, August, September, October, January, February, and March.

Student Limit: 8 students per month

Staff: Drs. Brent Khan EdD., Byers Shaw, M.D., and Steven Wengel, M.D.

This course is NOT available to visiting students.

This elective is intended to expose the student to stress reduction techniques that are currently used in mental health and can be used in a variety of medical settings. Some of the practices include meditation, guided imagery, biofeedback, and breathing and movement. These are among the best known and most widely used of the complementary, alternative or integrative approaches to healthcare. These modalities will prepare students to understand the power of self-awareness and self-care and determine its applicability to the clinical setting. Medical school is recognized as a stressful life event. A recently study has shown that 50% of medical student's experience burnout and 10% have experienced suicidal ideation (Drybe et al. Burnout and suicidal ideation among U.S. medical students. *Ann Intern Med* 2008; 149:334--41.) This course is intended to provide the student an opportunity to understand the potential of stress reduction techniques as an integral part of whole-person care. It is not enough to hear about stress reduction and to read and comprehend the scientific basis for its efficacy. Rather, for students to appreciate their own capacities for self-awareness and self-care, students should experience and realize their own abilities.

****PSYC-719 Addiction Psychiatry**

Sites: UNMC Main Campus

Staff: Drs. Alëna Balasanova, M.D., VaKara Meyer Karre, M.D., Kenneth Zoucha, M.D., John Franzen, M.D., and Sarah Zachman, M.D.

Periods Offered: Each four weeks

Student Limit: 2

Substance use disorders (SUDs) frequently co-occur with other psychiatric conditions and are increasingly prevalent among medically and surgically hospitalized patients. This elective experience provides students greater exposure to the subspecialty field of addiction psychiatry with particular focus on integrated treatment for patients with co-occurring SUDs and other psychiatric disorders. Students will participate in the assessment of patients with a variety of psychiatric diagnoses and co-occurring SUDs through consultation to primary medical and surgical teams in the hospital. Students will have the option of exposure to multiple levels of care including Intensive Outpatient (IOP) and outpatient clinics. Students will learn about performing detailed initial evaluations, diagnosing, and treating alcohol and opioid withdrawal in the context of psychiatric illness, initiating medications for addiction treatment, the use of psychosocial interventions and the principles of harm reduction. Students will also complete the self-paced buprenorphine-waiver course during this elective. This course is intended for M4s considering a career in psychiatry or primary care fields where SUDs are often diagnosed and managed, or as a refresher on management of SUDs prior to internship for any specialty.

****PSYC-720 Psychiatry Emergency Services Rotation Sub-Internship**

Sites: Nebraska Medical Center PES

Staff: Dr. Ashish Sharma, M.D.

Periods Offered: Each four weeks

Student Limit: Up to 4 students

This course is NOT available to visiting students.

This psychiatric emergency services elective allows the student to build upon the foundation of clinical skills established during the third year psychiatry clerkship. The student will be involved in the assessment and treatment of adult patients in acute crisis presenting to the PES. Students will be expected to work at a level similar to that of an intern / resident under the supervision of faculty. Students may attend case conferences and Grand Rounds and participate in self-directed learning.

****PSYC-723 Adult Inpatient Psychiatry Sub-Internship**

Sites: Lasting Hope Recovery Center (LHRC)

Staff: Dr. Mark Thomsen, M.D.

Periods Offered: Each four weeks

Student Limit: Up to 2 students

This course is NOT available to visiting students.

This inpatient elective allows the student to build upon the foundation of clinical skills established during the third year psychiatry clerkship. The student will be involved in the assessment and treatment of adult patients with mental illness requiring inpatient stabilization at Lasting Hope Recovery Center. Students will be expected to work at a level similar to that of an intern / resident under the supervision of faculty. Students may attend case conferences and Grand Rounds and participate in self-directed learning. Students selecting LHRC site will be required to complete a urine drug screen (at no cost to the student) and additional onboarding procedures.

****PSYC-725 Child and Adolescent Psychiatry**

Sites: UNMC Main Campus

Staff: Drs. Ryan Edwards, M.D. Daniel Gih, M.D., Soonjo Hwang, M.D., Howard Liu, M.D., Varun Sharma, M.D., and Madeline West, M.D., and child/adolescent therapists.

Periods Offered: Each four weeks, EXCEPT October

Student Limit: 1

This elective provides the student greater exposure to the subspecialty of child and adolescent psychiatry. Students will directly participate with faculty and therapists in outpatient management of youth. Students will participate in the assessment of children and adolescents with a variety of psychiatric diagnoses by interviewing both patients and their caregivers, as well as forming differential diagnoses and bio-psychosocial treatment plans. Time is allotted to attend weekly didactics with the current child and adolescent psychiatry fellows. This elective is recommended for those considering career fields involving the treatment of children and adolescents (such as pediatrics and family medicine) and for those who would like to explore child and adolescent psychiatry as a career. Techniques in the medical interview of youth will be practiced.

****PSYC-727 Psychiatry Through the Lifespan**

Sites: UNMC Main Campus

Staff: All adult outpatient Psychiatry faculty, child/adolescent outpatient Psychiatry faculty, Reproductive Psychiatry outpatient faculty, and Geriatric outpatient faculty.

Periods Offered: Each four weeks, EXCEPT December

Student limit: 1

This outpatient psychiatry elective provides an interactive exposure to a diversity of patient populations with mental illness. The student will rotate through week-long experiences in children and adolescent psychiatry, women's health / perinatal care, adult psychiatry and geriatric psychiatry. Patient care will primarily occur in the outpatient setting. Treatment therapies will include psychotherapeutic and psychopharmacological modalities. Students will have the opportunity to work with faculty and therapists in evaluating and treating patients. This elective allows the student an opportunity to expanding their psychiatric knowledge and skills, and may appeal to students entering primary care.

****PSYC-740 Consultation Liaison (C/L) Psychiatry Sub-Internship**

Sites: UNMC Main Campus

Staff: Dr. Ashish Sharma, M.D.

Periods Offered: Each four weeks

Student Limit: 2

This course is NOT available to visiting students.

This elective provides exposure to medically ill patients with emotional / psychiatric problems with teaching emphasis on psychiatric diagnostic issues, acute treatment plans, short-term intervention techniques and supportive therapies. Readings, self-directed learning, daily rounds, case conferences and liaison with other medical staff in the emergency room and general hospital setting are all part of this elective. Students will be expected to participate in patient care at a level similar to an intern under the supervision of staff.

****PSYC-741 Geriatric Psychiatry**

Sites: UNMC Main Campus

Staff: Drs. Thomas Magnuson, M.D., Steven Wengel, M.D., Andrew Baumgartner, M.D., and Erin Ranum, M.D.

Periods Offered: Each four weeks

Student Limit: 1

The geriatric population is a growing demographic which will continue to increase in size in the next decades. This elective will provide students greater exposure to the subspecialty field of geriatric psychiatry with particular focus on psychiatric disorders that manifest mainly in the geriatric population and how psychiatric symptoms and treatment of common disorders may change with age. Students will participate in the assessment of geriatric patients with a variety of psychiatric diagnoses by interviewing patients, families, and/or caregivers, as well as forming differential diagnoses and bio-psycho-social treatment plans. This elective is intended for M4s considering a career in psychiatry or primary care fields where psychiatric illness will be diagnosed and managed.

****PSYC-760 Off-Campus Psychiatry Elective**

Periods Offered: Each four weeks

Student Limit: By Arrangement through the M4 Director and Program Coordinator

This course is NOT available to visiting students.

Off-Campus electives may be taken to broaden ones' knowledge of psychiatry generally or to acquire types of experience not available here. Transcultural electives are encouraged. For suggestions concerning possible off-campus electives, contact Dr. Raml. An Off-Campus Elective Application Form must be submitted for this experience. (See Off-Campus Elective Application procedures.)

RADIOLOGY

Chair/Dr. Craig Walker
Dr. Lucy Muinov/Student Coordinator
Tina Hunter, Curriculum Clerk
Room 1541 UMA
402-559-1018

To pre-arrange electives contact:
Tina Hunter
Department of Radiology
thunter@unmc.edu
402-559-1018
University Tower 3: 1312B

RADI-720 Diagnostic Radiology

Faculty Contact: Lucy Muinov, M.D.

Periods offered: Each four weeks EXCEPT December

Student Limit: 16

Where to Report: Students will be notified by e-mail prior to starting the rotation.

Daily observations of film interpretation, fluoroscopic examinations and interventional radiographic procedures. We will discuss plain film analysis of the abdomen and chest, terminology used with different modalities, radiation protection and the patient's experience of radiological tests. You will further learn by teaching your peers through unknown cases and presentations. With the cooperation of the instructor, emphasis can be directed to specialized areas such as pediatric radiology, cardiovascular radiology, ultrasound, neuroradiology, musculoskeletal radiology, and GU radiology.

Students will be assigned at the University Hospital. You will receive your clinical schedule at the beginning of the rotation.

****RADI-727 Interventional Radiology**

Faculty Contact – Tim Donovan, MD

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Contact Tina Hunter, Department of Radiology, 559-1018

This elective exposes the student to the clinical side of radiology. Interventional Radiology is patient oriented and students are encouraged to participate in pre-procedure workup, observation and performance of procedures, and post procedure care. Didactic sessions are conducted every morning, where cases of the day and completed cases from the day before are discussed. Interventional Radiology encompasses most specialties, including peripheral vascular disease, oncology, surgery, internal medicine, ob/gyn, urology, pediatrics, pathology, and neurology to name a few.

RADI-760 Off-Campus Radiology Elective
Periods Offered: Each four weeks
Student Limit: By Arrangement
Prerequisite: By permission of Clerkship Coordinator
Contact: Tina Hunter, thunter@unmc.edu, 402-559-1018

This course is NOT available to visiting students.

An Off-Campus Elective Application form must be completed for this experience. (See Off-Campus Elective Application procedures.)

The student must have completed Diagnostic Radiology (RADI-720) prior to approval of an off-campus elective, unless the student is planning to take the elective at a teaching (university-affiliated) hospital.

RADIATION THERAPY

Chair/Dr. Charles E. Enke
Contact Person: Jeanne Badura at 402-559-5388

RONC-722 Radiation Therapy

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Dr. Nathan Bennion, Radiation Oncology, The Fred and Pamela Buffet Cancer Center-First Floor Dept of Radiation Oncology, 8:00 a.m.

Most patients with cancer will receive radiation therapy at some point. This elective permits a concentrated exposure to using radiotherapy as a therapeutic means for curative and palliative treatment. The emphasis will be the evaluation of patients undergoing treatment with the various radiation therapy modalities.

Activity Hours/Week
Rounds 28
Didactic conferences 2
Independent learning 8
Research project: optional
Independent patient care 1

RONC-760 Off Campus Rad Onc Elective

Periods Offered: Each four weeks

Student Limit: 6

This course is NOT available to visiting students.

An off-campus elective application form must be completed for this experience.

SURGERY

Chair/David W. Mercer, M.D.
Olabisi Sheppard, M.D., MS4 Director
Beverly Vaughn, M4 Student Coordinator, 402-559-4718
Room 4536 MSB

Please review the elective catalog for a list of available courses.

Fourth year elective rotations are designed to engage the student integrate their knowledge of anatomy, pathophysiology, and clinical decision making. Rotations involve experiences in the outpatient clinic setting, inpatient wards, operating room and procedural areas. Each elective allows for graduate responsibility in patient care to progress to functioning at the level of an intern.

Completing a surgery elective during Phase 3 will contribute to your education and development as a physician, regardless of your chosen specialty. Students who chose the General Surgery Career Specialty Track will be required to complete the three electives in surgery, with one completed after January of the senior year.

****SURG-710 Plastic Surgery**

Drs. Hollins, Miller, Johnson, Figy, Wong, Hon, and Yang

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date

This elective experience is designed to expose senior students to the principles of plastic surgery and possibly enhance any interest they may have in the field. Areas of focus include general plastic surgery, cosmetic and aesthetic surgery, breast reconstruction, pediatric craniofacial, facial trauma, burn and wound.

The student will be expected for daily rounds, elective and occasionally emergency operations. Overnight on-call with the senior surgical resident on the service would be beneficial. Students will be expected to give a 15 minute indications presentation in their last week of the rotation.

****SURG-720 Urology**

Drs. LaGrange, Deibert and B. Hill

Periods Offered: Each four weeks

Student Limit: By Arrangement

Where to Report: Grace Handleman, Office, SSP 2023

Students are active participants in the team caring for patients. Students will be exposed to genitor-urinary tract disease recognition, diagnosis, and therapy and be encouraged to partake fully in the pre-operative, intra-operative and post-operative management of these patients. Students are expected to give a clinical case study presentation during didactic conference during the month rotation. This case will be approved by a faculty advisor prior to presentation. Students will participate in 2-3 hrs of didactics/conferences a week including morbidity and mortality, tumor board, radiology, indications, and other educational conferences.

****SURG-722 Pediatric Surgery**
Drs. Hanna, Thomas and Zarroug
Periods Offered: Each four weeks
Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

On the pediatric surgical service, students will have the opportunity to see firsthand the physiology, pathology, and surgical care of a variety of surgical problems, from newborns up to adulthood. Students will have the opportunity to follow patients from the clinic, admission, scrub into their OR case, and follow them postoperatively. There are weekly pediatric surgical teaching conferences as well as weekly multidisciplinary conferences that the students will participate in. Students may be asked to give a presentation at a conference based on a patient they cared for during their rotation. Students are expected to come in on one day each weekend.

****SURG-725 Cardiac Surgery**
Drs., Moulton, Siddique, Um, Castleberry, B. Duncan, and K. Duncan
Periods Offered: Each four weeks
Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

Dr. B. Duncan will contact the student prior to the rotation with instructions

During this elective, the student will function as a sub-intern. Students will participate in the pre-operative clinic evaluation of cardiac surgical patients, the surgical procedures, and the post-operative management. At the end of this rotation, the student should have an understanding of the diagnostic procedures used in evaluation cardiac and pulmonary disease, indications and contraindications for surgery, a thorough acquaintance with intra-operative cardiopulmonary bypass and post-operative cardiac intensive care unit management including mechanical ventilation, pharmacological agents utilized in the care of cardiac patients and extracorporeal membrane oxygenation. The student will be expected to be available for daily rounds, weekly conferences, elective and occasionally emergent operations (i.e. transplants). Overnight call is not typically necessary.

****SURG-726 Oral Surgery**
Drs. Desa, Untrauer, Tucker and Ruskin
Periods Offered: Each four weeks
Student Limit: 1

Where to Report: Pat Tolliver will send out an email 2 weeks prior to the rotation.

This course is NOT available to visiting students.

During this elective, the student will function as a sub-intern. This elective is designed to expose the medical student to the full scope of oral and maxillofacial surgery (OMFS). The student will participate in all aspects of patient care including surgical evaluation and management of facial, head, and neck trauma, orthognathic (jaw) surgery, TMJ surgery, facial reconstruction, dentoalveolar surgery (third molar extractions), endosseous implants, and ambulatory management of patients. The student will have the opportunity to improve their head and neck anatomy and participate hands-on with suturing, administration of local anesthesia intraorally, and engage in regular didactic case conferences and grand rounds.

Training to become an OMF surgeon includes doctorate degrees in both medicine and dentistry along with completion of a surgical residency. The student will gain exposure to the broad scope of practice of an OMFS – which includes facial reconstructive and trauma surgery, orthognathic surgery, dentoalveolar surgery, cosmetic surgery, oral, head, temporomandibular joint surgery, cleft lip/palate surgery, endosseous implant surgery, obstructive sleep apnea management and surgery, nerve repair, and more.

Objectives for the student at the end of the four-weeks are to:

- 1) develop skills of pre-operative, operative, and post-operative patient management,
- 2) enrich their didactic surgical knowledge and head and neck anatomy,
- 3) improve hands-on surgical skills by participating in all aspects of care, and
- 4) understand how oral and maxillofacial surgery integrates within the tertiary care healthcare system.

****SURG-727 Thoracic Surgery**

Drs. Lackner, Trujillo and Berkheim

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date

During this elective, the student will function as a sub-intern. They will participate in the pre-operative evaluation of thoracic surgical patients, the surgical procedures, and the post-operative management of these patients. At the end of this rotation, the student should have an understanding of the diagnostic procedures used in evaluation of thoracic and pulmonary disease, indications and contraindications for surgery in these patients, radiologic and pathologic evaluation of thoracic malignancy, invasive hemodynamic monitoring, and ventilator management, as well as a familiarity with pharmacological agents utilized in the care of these patients.

****SURG-728 General Surgery in Affiliated Hospitals**

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This course is NOT available to visiting students.

Services:

Methodist: Drs. Reilly, Winterstein, Buda, Dittrick, Carson, Kolkman, White, Grams, Patel, and Poole
Students selecting an elective at Methodist Hospital will be assigned to the General Service. This will include exposure to GI, Minimally invasive and Robotic, Bariatric, Breast and GI Oncology Surgery. Hospital assignments are made through the Department of Surgery.

Private Colorectal Surgery (CRS): Dr. Beaty

Students selecting an elective at Methodist Hospital will be assigned to a teaching service of their choice when possible; however, in the interest of optimal educational experiences, it may be necessary to assign students to unfilled positions. Hospital assignments are made through the Department of Surgery.

****SURG-729 General Surgery at the Veterans Administration Medical Center**

Drs. Carlson, Rivard, Murante, and deRosa

Periods Offered: Each four weeks

Student Limit: 1 per service

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This course is NOT available to visiting students

Students will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with emergent and elective surgical diseases including benign and malignant hepatopancreaticobiliary, gastrointestinal, cutaneous disorders. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team.

****SURG-730 Liver Transplantation Surgery**
Drs. Langnas, Grant, Mercer, Vargas, and Merani
Periods Offered: Each four weeks
Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to all students interested in a career in surgery with a special interest in solid organ transplantation.

Students will function as a sub intern for the transplant patients only and will be intimately involved in all phases of the transplantation procedure; both donor and recipient operation, pre- and post-operative management and regulation of immunosuppressive drugs. Students will be exposed to patients undergoing liver transplant. In addition, all general surgical procedures on transplant patients and hepatobiliary operations will be a part of the rotation. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation.

****SURG-741 Colorectal Surgery**
Drs. Thompson, Langenfeld, and Leinicke
Periods Offered: Each four weeks
Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to colorectal surgery.

Student will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with benign and malignant conditions of the lower gastrointestinal tract including colorectal cancer, inflammatory bowel disease, diverticular disease, benign anorectal disorders, and screening or diagnostic colonoscopy. The student will be expected to be an active participant in the clinic, operating room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team.

****SURG-742 Minimally Invasive and Bariatric Surgery**
Drs. Haskin, McBride, Kothari, Murante, and Tanner
Periods Offered: Each four weeks, September – July thru June excluding August and April
Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to minimally invasive laparoscopic and robotic surgery, specifically bariatric, foregut and hernia surgery.

Students will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with complex upper gastrointestinal tract disorders, including bariatric, foregut, and hernia surgery. The student will be expected to be an active participant in all areas where patients are evaluated, including clinic, Emergency Medicine, and in the perioperative period. Prior to the conclusion of this rotation the student will be responsible for preparing a formal case presentation to all members of the team, which should focus on an interesting case that the students was involved in during the rotation.

****SURG-743 Vascular Surgery**

Drs. Longo, Johanning, MacTaggart, Baxter, Pipinos, Cook and J.R. Thompson

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to vascular surgery.

Students will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with vascular disease to include carotid stenosis, aortic and visceral aneurysm, peripheral arterial disease, arterial embolic occlusive disease, venous thrombosis and venous insufficiency using open and endovascular techniques. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team.

****SURG-744 Gastrointestinal Surgical Oncology**

Drs. Are, Foster, Ly, Padussis, Reames, and Mammen

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to gastrointestinal surgical oncology.

Students will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with malignancy of the gastrointestinal and hepatopancreaticobiliary systems including esophageal, gastric, small bowel, colorectal, hepatic, pancreatic, and perineal carcinomatosis. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team.

****SURG-745 Breast, Endocrine and Cutaneous Surgical Oncology**

Drs. Fingeret, Shank, Maxwell, Santamaria and D. Ly

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to the surgical management of benign and malignant breast and endocrine disease and cutaneous malignancy.

Students will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with benign and malignant breast, thyroid, parathyroid, adrenal, and endocrine pancreatic diseases along with management of cutaneous malignancy. The rotation functions in a preceptor model with the student assigned to specific Attendings for 2 weeks each to increase continuity and depth of exposure. The student will be expected to be an active participant in the clinic, operating, room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team as well as attending weekly tumor board conferences. One weekend of call/rounding are expected **during** the four week rotation. No overnight call is assigned.

****SURG-746 Surgical Critical Care**

Drs. Cantrell, Evans, Bauman, Sheppard, Kamien, Goede, Waibel, Terzian, Hamill, Josef Berning, Cemaj, Buesing, and Kemp

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to the management of critically ill surgical patients.

Student will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with critical illness. The student will be expected to be an active participant in the surgical intensive care unit including management of critically ill patients who require hemodynamic monitoring, ventilator management, and have organ dysfunction or failure. Students will participate in daily morning reports and team rounds. Students will observe and may perform procedures under direct supervision including venous and arterial line placement, bronchoscopy, intubation and ultrasonography. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. It is recommended the student take at least 3 call shifts during their time on the service. This will allow the student the opportunity to see and experience all aspects of the Trauma and Acute Care Surgical specialty. Call shifts will be assigned at the beginning of the rotation.

****SURG-747 Trauma Surgery**

Drs. Cantrell, Evans, Bauman, Sheppard, Kamien, Goede, Waibel, Terzian, Hamill, Josef, Berning, Cemaj, Buesing, and Kemp

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to the evaluation, surgical intervention, inpatient care, and clinic follow-up of the multiply injured trauma patient. Students will be expected to function as sub-interns on the service and acquire an understanding of the initial assessment, resuscitation and stabilization of a trauma patient. Students will participate as active members of the trauma patient care team, including the pre and post-operative management of patients with acute injury from the initial presentation. Students will participate in daily morning reports and team rounds. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Weekday, night and weekend shifts will be assigned. It is recommended the students take at least 3 call shifts during their time on the service. This will allow the student the opportunity to see and experience all aspects of the Trauma and Acute Care Surgery specialty. Call shifts will be assigned at the beginning of the rotation.

****SURG-748 Emergency General Surgery**

Drs. Cantrell, Evans, Bauman, Sheppard, Kamien, Goede, Waibel, Terzian, Hamill, Josef, Berning, Cemaj, Buesing, and Kemp

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a more in-depth exposure to the management of emergent general surgery conditions.

Students will be expected to function as sub-interns on the service, including the pre and post-operative management of patients with a variety of acute non-traumatic surgical diseases including but not limited to bowel obstruction, visceral perforation, gastrointestinal hemorrhage, cholecystitis, pancreatitis, appendicitis, and diverticulitis. The student will be expected to be an active participant in the clinic, operating room, and emergency department settings. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team. Weekday, night and weekend shifts will be assigned. It is recommended the student take at least 3 call shifts during their time on the service. This will allow the student the opportunity to see and experience all aspects of the Trauma and Acute Care Surgery specialty. Call shifts will be assigned at the beginning of the rotation.

****SURG-749 Kidney Transplant**

Drs. Maskin, Hoffman, and Merani

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Email will be sent out by Beverly Vaughn 2 weeks prior to start date.

This elective is recommended to students interested in a career in surgery with a special interest in solid organ transplantation.

Student will be expected to function as sub-interns for kidney transplant patients only and will be intimately involved in all phases of the transplantation procedure; both donor and recipient operation, pre and post-operative management and regulation of immunosuppressive drugs. Students will be exposed to patients undergoing kidney and pancreatic transplant. In addition, all general surgical procedures on transplant patients will be a part of the rotation. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation.

SURG-750 Global/International Health Elective

Periods Offered: Each four weeks

Student Limit: By Arrangement

You must pre-arrange this elective with:

Sara Pirtle, International Health and Medical Education (402-559-2924) And

Beverly Vaughn (402-559-4718)

Students will be unable to do the elective if Sara Pirtle has not been contacted.

This course is NOT available to visiting students.

The course offers students the opportunity to participate in a health care setting in a foreign country. Students' responsibilities, performed under the supervision of trained medical personnel, may include work in clinics and hospitals; home visits with community health workers, and health education. In addition, the student will also participate in a brief orientation and debriefing on campus.

SURG-760 Off-Campus Surgery

Periods Offered: Each four weeks

Student Limit: By Arrangement – Please contact Beverly Vaughn in the Department of Surgery

This course is NOT available to visiting students.

Special off-campus electives at other medical centers can be arranged for an extraordinary learning experience not regularly available within the department. An Off-Campus Elective Application form must be submitted for this experience. The primary concern is to identify a responsible and acceptable faculty-in-absentia who can assure an active clerkship and offer an evaluation of performance. A student evaluation of this clerkship will be required upon completion.

****SURG-766 Preceptorial Surgery**

Periods Offered: Each four weeks

Student Limit: By Arrangement – please contact Beverly Vaughn in the Department of Surgery

This course is NOT available to visiting students.

Many members of the active faculty have indicated a willingness to share a preceptorial clerkship with a student. The list of faculty is maintained in the Department of Surgery. This involves surgeons on our faculty in active practice in Council Bluffs, O'Neill, Lincoln, Kearney, Scottsbluff and Omaha and can be arranged with the member of the faculty and certified by the Department of Surgery. Positions are available at Lincoln Veterans Administration Hospital. Bear in mind that each member of the faculty will set their own individual student limit.

A responsible and acceptable faculty-in-absentia, who can assure an active clerkship and offer an evaluation of performance, must be identified prior to approval. An evaluation of the student's performance will be required upon completion and the student is responsible for assuring that the department receives the evaluation.

SURG-790 Surgery Research

Periods Offered: By Arrangement

Student Limit: By Arrangement – please contact Beverly Vaughn in the Department of Surgery

This course is NOT available to visiting students.

This elective offers students an opportunity to work with faculty members in clinical investigations of surgical disease in ongoing bench research projects. Definitions of problems and programs of learning will be decided upon discussion with faculty. A letter from your PI is required before approval will be given for this course.

SAMPLE WORKSHEET

Student Name: _____ Career Interest _____

Advisor's Name: _____

ALL ELECTIVES ARE PRE-ARRANGED

MONTH	FIRST CHOICE	SECOND CHOICE
APR 2022	RADI 720 Diagnostic Radiology	
MAY 2022	PEDS 722 Pediatric Cardiology and Cardiovascular Disease	
JUNE 2022	Curriculum Enhancement Rotation	
JUL 2022	ANES-720 Anesthesia	
AUG 2022	IMED-720 Adult Cardiology	EMED-761 (off Campus in VA)
SEP 2022	SURG-730 Transplantation	EMED-761 (off Campus in CO)
OCT 2022	IMED-724 G.I.	IMED-722 General Medicine
NOV 2022	PEDS-728 Newborn Medicine	ANES-760 (Off Campus in MD)
DEC 2022	IMED-751 Rheumatology	IMED-726 Infectious Disease
JAN 2023	VACATION/Unstructured month	
FEB 2023	M-ID-728 Development of PBL Cases	
MAR 2023	OPHT-720 Ophthalmology	IMED-727 Renal
APR 2023	Residency Preparatory Course	-----

Listing of Electives that meet the Sub-I requirement

**ANES-720.....	11	**PEDS-711.....	66
**ANES-725.....	12	**PEDS-724.....	68
**ANES-799.....	14	**PEDS-725.....	68
**DERM-714.....	15	**PEDS-728.....	70
**DERM-764.....	16	**PEDS-735.....	73
**DERM-790.....	16	**PEDS-751.....	75
**EMED-733.....	18	**PEDS-760.....	76
**EMED-734.....	18	**PEDS-764.....	76
**FMED-720.....	21	**PEDS-766.....	76
**FMED-722.....	22	**PMR-710.....	77
**FMED-723.....	22	**PSYC-719.....	78
**FMED-727.....	23	**PSYC-720.....	79
**FMED-730.....	23	**PSYC-723.....	79
**FMED-732.....	24	**PSYC-725.....	79
**FMED-735.....	25	**PSYC-727.....	80
**IMED-717.....	29	**PSYC-740.....	80
**IMED-720.....	30	**PSYC-741.....	80
**IMED-723.....	33	**PSYC-760.....	80
**IMED-726.....	34	**RADI-727.....	81
**IMED-727.....	34	**SURG-710.....	84
**IMED-734.....	37	**SURG-720.....	84
**IMED-736.....	38	**SURG-722.....	85
**IMED-743.....	39	**SURG-725.....	85
**IMED-744.....	39	**SURG-726.....	85
**IMED-751.....	40	**SURG-727.....	86
**IMED-762.....	41	**SURG-728.....	86
**IMED-766.....	42	**SURG-729.....	86
**IMED-766A.....	42	**SURG-730.....	87
**IMED-767.....	43	**SURG-741.....	87
**NEUR-736.....	51	**SURG-742.....	87
**NSURG-738.....	52	**SURG-743.....	88
**OBGY-720.....	53	**SURG-744.....	88
**OBGY-721.....	53	**SURG-745.....	88
**OPHT-720.....	56	**SURG-746.....	89
**OPHT-721.....	57	**SURG-747.....	89
**ORL-720.....	61	**SURG-748.....	90
**ORTH-722.....	59	**SURG-749.....	90
**PEDS-710.....	66	**SURG-766.....	91