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Rotations marked with a double asterisk (**) meet the Sub-I requirements
University of Nebraska College of Medicine
2020-2021 Academic Year

SEMMESTERS
First Semester (Class of 2024)  August 24, 2020 – December 18, 2020
First Semester (Class of 2023)  August 24, 2020 – December 18, 2020
First Semester (Class of 2022)  June 29, 2020 – December 18, 2020
First Semester (Class of 2021)  July 6, 2020 – December 18, 2020
Second Semester (Class of 2024) January 4, 2021 – May 28, 2021
Second Semester (Class of 2023) January 11, 2021 – June 30, 2021
Second Semester (Class of 2022) January 4, 2021 – June 25, 2021
Second Semester (Class of 2021) January 4, 2021 – May 2, 2021

RECESSES AND HOLIDAYS
Summer Break (Class of 2021)  June 27, 2020 – July 5, 2020
Summer Break (Class of 2022)  June 20, 2020 – June 28,2020
Independence Day  July 4, 2020 (Saturday)
Labor Day  September 7, 2020 (Monday)
Fall Break (Class of 2022)  September 19, 2020 – September 27, 2020
Thanksgiving (M1 - M4)  November 26, 2020 – November 27, 2020
Winter Recess (Class of 2023)  December 19, 2020 – January 10, 2021
New Year’s Day (Holiday)  January 1, 2021 (Friday)
Martin Luther King, Jr.  January 18, 2021 (Monday)
Spring Recess (Class of 2024)  March 6, 2021 – March 14, 2021
Spring Recess (Class of 2023)  March 13, 2021 – March 21, 2021
Spring Recess (Class of 2022, 2021)  March 27, 2021 – April 4, 2021
Memorial Day  May 31, 2021 (Monday)
Summer Break (Class of 2024)  May 29, 2021 – August 22, 2021
Summer Break (Class of 2022)  June 26, 2021 – July 4, 2021
Independence Day  July 4, 2021 (Sunday)

SPECIAL EVENTS
Acute Care Block (Class of 2022 requirement)  March 9, 2020 – March 20, 2020
First Year Orientation (Mandatory Class of 2024)  August 17, 2020 – August 21, 2020
Interprofessional Education Event #1 (Class of 2024)  August 19, 2020
White Coat Ceremony (Class of 2024)  August 21, 2020 (Friday)
FIRST DAY OF CLASS (Class of 2023, 2024)  August 24, 2020 (Monday)
Interprofessional Education Event#2 (Class of 2024)  February TBA, 2021
Interprofessional Education Event (Class of 2023)  February TBA, 2021
Honors Convocation (Class of 2021)  May 7, 2021 (Friday)
Commencement (Class of 2021)  May 8, 2021 (Saturday)
## Class of 2021 Phase 3

4 Week Rotations:

<table>
<thead>
<tr>
<th>Period</th>
<th>Dates</th>
<th>Notes</th>
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<tbody>
<tr>
<td><strong>SUMMER BREAK</strong></td>
<td>JUNE 27, 2020 – JULY 5, 2020</td>
<td>(Independence Day July 4)</td>
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<tr>
<td>July 2020</td>
<td>July 6, 2020 – August 2, 2020</td>
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<td>August 2020</td>
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<tr>
<td>September 2020</td>
<td>August 31, 2020 – September 27, 2020</td>
<td>(Labor Day Sept 7)</td>
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<td>October 2020</td>
<td>September 28, 2020 – October 25, 2020</td>
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<tr>
<td>November 2020</td>
<td>October 26, 2020 – November 22, 2020</td>
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</tr>
<tr>
<td>December 2020</td>
<td>November 23, 2020 – December 18, 2020</td>
<td>(Thanksgiving Nov 26 &amp; 27)</td>
</tr>
<tr>
<td><strong>WINTER BREAK</strong></td>
<td>DECEMBER 19, 2020 – JANUARY 3, 2021</td>
<td>(New Year’s Day January 1)</td>
</tr>
<tr>
<td>February 2021</td>
<td>February 1, 2021 – February 28, 2021</td>
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</tr>
<tr>
<td>March 2021</td>
<td>March 1, 2021 – March 26, 2021</td>
<td></td>
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<tr>
<td><strong>SPRING BREAK</strong></td>
<td>MARCH 27, 2021 – APRIL 4, 2021</td>
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<td>Residency Preparatory Course</td>
<td>April 5, 2021 – May 2, 2021</td>
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<td><strong>HONORS CONVOCATION</strong></td>
<td>MAY 7, 2021</td>
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</tr>
<tr>
<td><strong>GRADUATION</strong></td>
<td>MAY 8, 2021</td>
<td></td>
</tr>
</tbody>
</table>

Office of Admissions & Student Affairs (9/19/2019)
CAREER SPECIALTY DIRECTORS

Anesthesia
Megan Chacon, M.D.  mchacon@unmc.edu  402-559-4081

Dermatology
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## DEPARTMENT COORDINATOR CONTACTS

<table>
<thead>
<tr>
<th>Department</th>
<th>Contact Person</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anesthesia</strong></td>
<td>Patricia Anderson</td>
<td><a href="mailto:patricia.anderson@unmc.edu">patricia.anderson@unmc.edu</a></td>
<td>402-559-4175</td>
</tr>
<tr>
<td><strong>Dermatology</strong></td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Emergency Medicine</strong></td>
<td>Heather Noyes</td>
<td><a href="mailto:heather.noyes@unmc.edu">heather.noyes@unmc.edu</a></td>
<td>402-559-2571</td>
</tr>
<tr>
<td><strong>Family Medicine</strong></td>
<td>Vanessa Wilcox</td>
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<td>402-559-7064</td>
</tr>
<tr>
<td><strong>Internal Medicine</strong></td>
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<td>402-559-6422</td>
</tr>
<tr>
<td></td>
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<td><a href="mailto:tweyant@unmc.edu">tweyant@unmc.edu</a></td>
<td>402-559-3964</td>
</tr>
<tr>
<td><strong>Neurology</strong></td>
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<td><a href="mailto:Arianne.marcoux@unmc.edu">Arianne.marcoux@unmc.edu</a></td>
<td>402-552-2153</td>
</tr>
<tr>
<td><strong>Neurosurgery</strong></td>
<td>Kelli Devney</td>
<td><a href="mailto:kdevney@unmc.edu">kdevney@unmc.edu</a></td>
<td>402-559-9605</td>
</tr>
<tr>
<td><strong>Obstetrics and Gynecology</strong></td>
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<td>402-559-8133</td>
</tr>
<tr>
<td><strong>Ophthalmology</strong></td>
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<td>402-559-1859</td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
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<td>402-955-6317</td>
</tr>
<tr>
<td><strong>Otolaryngology</strong></td>
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<td>402-559-7828</td>
</tr>
<tr>
<td><strong>Pathology and Microbiology</strong></td>
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<td>402-559-7212</td>
</tr>
<tr>
<td><strong>Pediatrics</strong></td>
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<td>402-559-9538</td>
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<tr>
<td><strong>Physical Medicine and Rehabilitation</strong></td>
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<td>402-559-7828</td>
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<tr>
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<td>402-552-6235</td>
</tr>
<tr>
<td><strong>Radiology</strong></td>
<td>Tina Hunter</td>
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<td>402-559-1018</td>
</tr>
<tr>
<td><strong>Radiation Oncology</strong></td>
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<td>402-559-3810</td>
</tr>
<tr>
<td><strong>Surgery</strong></td>
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<td>402-559-4718</td>
</tr>
<tr>
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<td>Sara Pirtle</td>
<td><a href="mailto:sepirtle@unmc.edu">sepirtle@unmc.edu</a></td>
<td>402-559-2924</td>
</tr>
</tbody>
</table>
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 VSAS (Visiting Student Application Service). 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, 2020 with decisions BEGINNING May 1, 2020. Beginning with the 2020-2021 catalog, 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. UNMC will not enter into affiliation agreements with D.O. institutions. Please check with your institution to see if this is required BEFORE submitting applications.

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)
- 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 (listed on Verification page)
- Immunizations uploaded
- 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 VSAS applications: (See VSAS 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

Emergency Medicine:  
Step 1 or COMLEX score  
Brief statement of interest in area

Internal Medicine:  
Step 1 or COMLEX  
Brief statement about why UNMC  
Step 2 score (if available)

Neurosurgery:  
Step 1 score  
Step 2 score (if available)

Obstetrics and Gynecology:  
Step 1 score  
Brief statement about why UNMC

Ophthalmology:  
Step 1 score  
Brief statement about why UNMC

Orthopaedic Surgery:  
Step 1 score

Otolaryngology:  
Step 1 score  
Brief 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 International Health and Medical Education offices at 402-559-6414 or international@unmc.edu or visit their website at http://www.unmc.edu/ihme/index.html.
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.
**ANES-720**

Anesthesia Clerkship

Dr. Charles Walcutt

**Periods Offered:** Each four weeks except June

**Student Limit:** July 4 students; all other months 6 students – University Hospital or VA

**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)

The intention of this clerkship is to provide students with a broad exposure to the field of anesthesiology. Students will be given an opportunity to participate in the care of patients undergoing a wide variety of surgical procedures throughout the perioperative period—from the Pre Anesthesia Screening Clinic to the Post Anesthesia Care Unit/Intensive Care Unit. Students will also gain exposure to anesthesia subspecialties by choosing rotations in the Acute Pain Service, Cardiac Anesthesia, Obstetrics Anesthesia, Pediatric Anesthesia, or Neuro Anesthesia. This diverse experience will give the student an opportunity to learn about the medical management of the perioperative patient and provide them a hands-on experience for a variety of procedures including airway management, peripheral nerve blockade, neuraxial anesthesia, venous access and invasive monitoring techniques. Other concepts emphasized will be physiology, pharmacology, fluid management, and pain control. Our clerkship also utilized the simulation lab to learn clinical skills, ACLS, and to improve decision-making in sessions with our faculty.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>5</td>
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<tr>
<td>Didactic conferences</td>
<td>3</td>
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<tr>
<td>Independent learning</td>
<td>10</td>
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<tr>
<td>Research project</td>
<td>3</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>OR case supervision</td>
<td>40</td>
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</table>
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.

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. Walcutt
Contact Person: Anesthesiology Coordinator (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 (IHME)
Contact Person: Anesthesiology Coordinator (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: Anesthesiology Coordinator (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: Anesthesiology Coordinator (402-559-4175)

This course is NOT available to visiting students.

This is an opportunity to select an area of interest. The student will spend a week of intense study and learning in any of several specialized areas, such as neuro-anesthesia, cardiovascular anesthesia, thoracic anesthesia, pediatric 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: TBD
LOC 4.14.060, 402-559-6128,

**DERM-714 Advanced Clinical Dermatology**
Periods Offered: Every month except October, November, and December
Student Limit: 1
Faculty Contact: Dr. Megan Arthur
Contact Person: TBD, 402-559-6128

This course is NOT available to visiting students

This four-week elective in Advanced Clinical Dermatology offers students a comprehensive dermatology experience. Students can expect exposure to general dermatology, dermatologic surgery, dermatopathology 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>4</td>
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<tr>
<td>Didactic conferences</td>
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</tr>
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<td>Independent learning</td>
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</tr>
<tr>
<td>Research project</td>
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</tr>
<tr>
<td>Independent patient care</td>
<td>35</td>
</tr>
</tbody>
</table>

**DERM-720 Clinical Dermatology**
Periods Offered: January - March
Student Limit: By arrangement (Approval from Dr. Megan Arthur)
Contact Person: TBD, 402-559-6128

This course is NOT available to visiting students

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 also 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: TBD, 402-559-6128

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).
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 under 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 a procedure lab, extremity injury, and immobilization lab simulation and a post-test. Paramedic squad observation will be offered, but is not mandatory. For further information, contact Heather Noyes or Dr. Amy Cutright 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/week including: simulation based review of common chief complaints and ED bedside procedures, wound care and procedure lab, extremity injury and immobilization lab.

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.
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.
5. Study research modalities and methodology in problems relating to the delivery of health services.
6. Develop life-long habits of learning and an understanding of the role of continuing education in maintaining professional excellence.
7. Encourage students to consider a career in rural family medicine.

Electives offered are directed at offering varying experiences in Family Medicine for those interested in the career field or others who are choosing more restricted fields and wish to broaden their experiences.

ADVISORS
Susan Evans, M.D.
Jeff Harrison, M.D.
Kimberly Jarzynka, M.D.
Mindy Lacey, M.D.
Aaron Lanik, M.D.

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 Vanessa Wilcox 402-559-7064.

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 help patients. Off-site experiences may include a culinary medicine experience, volunteering at the Girls, Inc. teaching kitchen, spending time at WIC and community gardens and food banks. Assignments include self-directed learning, teaching peers and a final presentation.
**FMED-720  Family Medicine Outpatient Sub-internship – Durham Outpatient Clinic  
Dr. Susan Evans and Staff  
Periods Offered: Every month except April  
Student Limit: 1  
Where to Report: Family Health Center – Contact Vanessa Wilcox 402-559-7064  

This is a clinical experience in the Family Health Center at UNMC. 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 are also welcome to participate in Family Medicine seminars. NOTE – Addition of inpatient, OB, geriatric, or procedural experience could be arranged on an individual basis.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
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</tr>
<tr>
<td>Didactic conferences</td>
<td>0 – 5, Family Medicine Teaching day on 2nd and 4th Wed. mornings</td>
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<tr>
<td>Independent learning</td>
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<tr>
<td>Independent patient care</td>
<td>30</td>
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</tbody>
</table>

**FMED-721  Family Medicine Sub-Internship – Chalco Clinic  
Dr. Alberto Marcelin  
Periods offered: April  
Student Limit: 1  
Where to Report: Chalco Clinic – Contact Vanessa Wilcox at 402-559-7064  

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 2nd and 4th Wednesday mornings  
Independent learning 5  
Independent patient care 30  

**FMED-722  Family Medicine Outpatient Sub-Internship – Bellevue Medical Center  
Staff  
Periods Offered: Every month except July  
Student Limit: 1  
Where to Report: Bellevue Medical Center – Contact Vanessa Wilcox 402-559-7064  

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.

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<tr>
<td>Rounds</td>
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<tr>
<td>Didactic conferences</td>
<td>0 - 5, Family Medicine Teaching day on 2nd and 4th Wed. mornings</td>
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<td>Independent learning</td>
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<tr>
<td>Independent patient care</td>
<td>30</td>
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</table>
**FMED-723**  
**Family Medicine Outpatient Sub-Internship – Oakview Clinic**  
Dr. Elisabeth Backer and Staff  
**Periods Offered:** Every month except July and August  
**Student Limit:** 1  
**Where to Report:** Oakview Medical Center – Contact Vanessa Wilcox 402-559-7064

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

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<tr>
<th>Activity</th>
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<tbody>
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<td>Rounds</td>
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<td>Didactic conferences</td>
<td>0-5, Family Medicine Teaching day on 2nd and 4th Wed. mornings</td>
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<td>Independent learning</td>
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<td>Independent patient care</td>
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</table>

**FMED-727**  
**Family Medicine Inpatient Service Sub-internship (UNMC)**  
Chief Resident and Staff  
**Periods Offered:** Every month except August  
**Student Limit:** 1 – 2 depending on the month  
**Where to Report:** Chief Resident – Room 2106 MSB - Contact Vanessa Wilcox 402-559-7064

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 the three Family Medicine Clinics, from the E.R. or Family Medicine referral patients from outstate Nebraska.

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<tr>
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<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
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<td>Independent learning</td>
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<td>Research project</td>
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<tr>
<td>Independent patient care</td>
<td>20 – 42</td>
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</table>

**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:** Every month except July and August  
**Student Limit:** 2  
**Where to Report:** Lincoln Family Medicine Program. Both Vanessa Wilcox 402-559-7064 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.
<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
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<td>Rounds</td>
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<td>Independent learning</td>
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<td>Research project</td>
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<tr>
<td>Independent patient care</td>
<td>12</td>
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</tbody>
</table>

**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 Vanessa Wilcox (402-559-7064) 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.

<table>
<thead>
<tr>
<th>Activity</th>
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<tr>
<td>Didactic conferences</td>
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<td>Research project</td>
<td>No</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Variable – 35</td>
</tr>
</tbody>
</table>

**FMED-733    Rural Training Track**
Pre-arranged through Vanessa Wilcox at Vanessa.wilcox@unmc.edu
Questions regarding the elective – Contact Dr. Jeff Harrison at 402-559-8252
Dr. Jeff Harrison
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.

<table>
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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>6</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
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<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>25-30</td>
</tr>
</tbody>
</table>
Pre-arranged through Vanessa Wilcox 402-559-7064 at Vanessa.wilcox@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 course is NOT available to visiting students.

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.

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<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
<td>0</td>
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<tr>
<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
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</tr>
<tr>
<td>Research project</td>
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<tr>
<td>Patient care</td>
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</tr>
</tbody>
</table>

**FMED-737 Domestic Violence**  
PRE-ARRANGED THROUGH Vanessa Wilcox (402-559-7064)  
Periods Offered: Typically only 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 biopsychosocial 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 Vanessa Wilcox (402-559-7064)
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, International Health and Medical Education (402-559-2924) And  
Vanessa Wilcox (402-559-7064). Please fill out the Off Campus Form. This form will need to be  
signed by Sarah Pirtle, Lisa Paquette, and Vanessa Wilcox.  
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: Every month  
Student Limit: By Arrangement  
Where to Report: T.B.A.  
Contact: Vanessa Wilcox 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: Every month
Student Limit: By Arrangement
Contact Vanessa Wilcox  402-559-7064

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

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: Every 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 with the approval of the faculty and pursue this project intensively for four weeks. Such projects might be concerned with the delivery of health care or with the value of screening procedures. Faculty advice will be given and the research project will be structured. The Research Project month in Family Medicine has certain requirements you must fulfill before you can proceed with research in the department. If you would like to do research through the Family Medicine Department please contact Dr. Jenenne Geske, PhD. You will need to have a research project developed to continue working on this month. You will need to begin this process several months in advance of your rotation to make sure you have proper regulatory training and your requirements for human research training have been met (CITI Training, added to IRB applications, etc.).
**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 Nebraska Supervising Resident for assignment.  
**Contact Person:** Sheryl Latenser for Attending Schedule, 402-559-8150.

A Nebraska faculty intensivist attends regularly on the VA CCM team, alternating every month with a Creighton faculty intensivist.

*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 clerkship offers opportunity for participation in the management of acutely ill patients, working closely with an ICU supervising resident, the pulmonary and critical care fellow and attending physician. As a Subinternship, 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 enrolled in a Blackboard Critical Care Medicine course containing various lectures and content and to attend any scheduled didactic lectures. Honors work will require enthusiasm and initiative, as well as student presentations to the CCM team of clinical topics related to clinical problems.

This ICU rotation is appropriate for a motivated student seeking a moderate intensity of critical care medicine.

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<tr>
<th>Activity</th>
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<tbody>
<tr>
<td>Rounds</td>
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</tr>
<tr>
<td>Independent learning</td>
<td>3</td>
</tr>
<tr>
<td>Research project</td>
<td>None</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Not expected</td>
</tr>
<tr>
<td>Procedures</td>
<td>Based on student interest and competency</td>
</tr>
</tbody>
</table>

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) and does not meet the senior selective requirement for the senior year.  

Each Teaching Assistant (TA) will assist with various teaching and assessment activities taking place in the pre-clinical curriculum. Activities may include but are not limited to the teaching and assessment of: history and physical examination, living anatomy, patient interviewing and communication, differential diagnosis, and healthcare systems. Other activities may include: discussion board moderation, small group facilitation (POPS, TBL, PBL), 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. More TAs than is required for each event will be enrolled in the course to ensure M4s the flexibility necessary to complete graduation requirements and residency interviews.  

**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-Friday 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*

*Where to Report: Stephanie Hogan, 402-384-4141*

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

This course is NOT available to visiting students.

Nebraska Methodist Hospital Electrophysiology Fourth Year Clinical Clerkship

**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).

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>7.5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Small Groups</td>
<td>15</td>
</tr>
</tbody>
</table>
**IMED-723  Diabetes, Endocrine and Metabolism (D.E.M.)**
Faculty: Drs. Desouza, Armas, Mack, Goldner, A. Neumeister, Shivaszamy, Boerner, Drincic, Eiland, Gupta, Larsen, Patel, and Akkireddy
UNMC
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: Diabetes Center SSP / 1st Floor
Contact Person: Mary Monaghan, 402-559-4284. Office, SSP 2023

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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>6 to 20</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>3</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>4</td>
</tr>
<tr>
<td>Clinic</td>
<td>6 to 20</td>
</tr>
</tbody>
</table>

**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
(Agent ID)

Periods Offered: Each four weeks

Student Limit: 2

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

Contact Person: Sandy Nelson, 402-559-8757-, 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, on hour didactic sessions covering a variety of essential ID topics are presented (HIV, immunocompromised host infections, UTI, 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 Citywide infectious Disease Care Conference where unusual or interesting ID cases are discussed. Time in the General ID and clinic is also a component.

Activity | Hours/Week
--- | ---
Rounds | 20
Didactic conferences | 4
Independent learning | 6
Research project | Negotiable
Independent patient care | 10

**IMED-727 Renal**

Faculty: Drs. Troy Plumb, Jennifer Fillaus, Marius Florescu, Jay Hawkins and Ryan Mullane

Periods Offered: Each four weeks

Student Limit: 3

Where to Report: UNMC

Contact Person: Catherine Hughes-Rose, 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 the nephrology rotation as a research or basic science reading course under the direction of an individual faculty member.

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

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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>2-12</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>20</td>
</tr>
<tr>
<td>Dialysis</td>
<td>3</td>
</tr>
</tbody>
</table>

IMED-728  End-of-Life Care: Hands On Experiences
Faculty: Dr. Catherine Eberle, Dr. Natalie Manley, M.D., MPH
Periods Offered: Each four weeks
Student Limit: 2
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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds (Palliative Care at VA)</td>
<td>Up to 30</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>16</td>
</tr>
<tr>
<td>Oral presentation prep</td>
<td>2</td>
</tr>
<tr>
<td>Home Visits</td>
<td>9</td>
</tr>
<tr>
<td>Site Visits</td>
<td>2</td>
</tr>
<tr>
<td>Hospice Administration</td>
<td>1</td>
</tr>
</tbody>
</table>

**IMED-730 Medical Oncology/Hematology**

Faculty: Drs. Al-Kadhimi, Armitage, Baljavić, Bhatt, Bierman, Bociek, Cowan, Ernani, Ganti, Grem, Gundabolu, Kallam, Klute, Krishnamurthy, Holstein, Lunning, Maness, Marr, Nester, Reed, Schwarz, Shonka, Tandra, Teply and Vose

**Periods Offered:** Each four weeks

**Student Limit:** 1

**Where to Report:** Buffett Cancer Center, 4th Floor

**Clinic Contact:** Shaun Capurro, 402-559-5388. 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>Up to 30</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4-5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Research project</td>
<td>If desired</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Up to 20-30 hours in clinic</td>
</tr>
</tbody>
</table>
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: Karen Brungardt, 402-559-3777. Whitney Dailey, 402-559-4088.

Objectives
- Outline the daily impatient care of a patient with cystic fibrosis
- 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
- Evaluate and outline management of a patient with chronic cough

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 arterial blood gases and pulmonary function tests with residents and fellows. A number of didactic lectures are scheduled usually at 11:00 a.m. as a topic review. 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>2 - 3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>Concur Pre- and Post-test, approximately 3 hours</td>
</tr>
<tr>
<td>Research project</td>
<td>None</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Not expected</td>
</tr>
<tr>
<td>Procedures</td>
<td>4</td>
</tr>
</tbody>
</table>
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 an ICU supervisory resident, the pulmonary and critical care fellow and attending physician. Clinical expectations will include responsibility for all patients assigned to their care (maximum of 2), writing a note each day on their patients to be cosigned by the attending physician, active participation on rounds, and taking in-house overnight call, if desired, with their supervising resident.

Clinical situations encountered on this rotation include management of respiratory failure, acute and chronic renal failure 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 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.

There are two separate Critical Care Medicine teams, each with an attending, a critical care fellow, as well as residents and physician extenders. Each team provides a difference experience and students will be randomly assigned based on availability and student interest. Students will rotate on two teams for two weeks each and switch at mid-rotation to provide the broadest experience possible. The student will be enrolled in a Blackboard Critical Care Medicine Course and will be expected to read through all the CCM educational material posted on Blackboard and to attend any scheduled didactic lectures. 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. In addition, attending physicians on each team will schedule with all the students, one hour of student-only contact per week to review presentations and review clinical topics of interest. All students are expected to attend these sessions unless excused. This ICU rotation is appropriate for a motivated student seeking a high level of intensity of exposure to critical care medicine.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>24</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>12</td>
</tr>
<tr>
<td>Independent learning</td>
<td>Concur Pre- and Post-test, approximately 3 hours</td>
</tr>
<tr>
<td>Research project</td>
<td>None</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Not expected</td>
</tr>
<tr>
<td>Procedures</td>
<td>Based on student interest and competency</td>
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</tbody>
</table>
IMED-735  Honors Program in Internal Medicine
Faculty: Internal Medicine Chief Residents
Periods Offered: August, September, October, and November 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>20</td>
</tr>
<tr>
<td>Independent learning</td>
<td>20</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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</table>

**IMED-736  Allergy and Immunology
Faculty: Dr. May
Periods Offered: Each four weeks
Student Limit: 1 per rotation
Contact Person: Delores Cunningham, 402-559-4087

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 three faculty members that have differing areas of expertise in allergic diseases at three different clinical sites in 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.
**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  
Contact Person: Nicolle.peterson@unmc.edu, phone 402-552-9697  

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.

<table>
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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>10</td>
</tr>
<tr>
<td>Clinic</td>
<td>6</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>10</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>12 (clinical and inpatient)</td>
</tr>
</tbody>
</table>

**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 NOT available to visiting students.

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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient Clinics</td>
<td>30</td>
</tr>
<tr>
<td>Nursing Home Rounds/Home Visits</td>
<td>5</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3</td>
</tr>
<tr>
<td>Independent Learning</td>
<td>2</td>
</tr>
<tr>
<td>(Readings/Scholarly Project)</td>
<td></td>
</tr>
</tbody>
</table>
**IMED-746 Women’s Health**

**Faculty:** Drs. Hartman, Markin, Boerner and Taylor

**Periods Offered:** Each four weeks EXCEPT December

**Student Limit:** 1

**Where to Report:** Please contact Dr. Boerner; Call 402-559-7502 for information

This elective was established for students with a strong interest in developing an additional expertise in health issues uniquely affecting women and presenting differently in women. The student will work one on one with faculty with expertise in Women’s Health at UNMC. These experiences include general internal medicine, genetic counseling, urogynecology, and pelvic physical therapy. Students will learn to manage mental health disorders common in women, menstrual dysfunction, menopausal symptoms, osteoporosis, and understand gender differences in disease presentation.

Discussions on women’s health topics will be provided during the month by participating faculty, along with a directed reading plan. The student will also be encouraged to attend scheduled lectures and conferences in Internal Medicine or OB/GYN as their clinical schedule allows.

**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, Lynell Klassen, Gerald Moore, Ted Mikuls, Amy Cannella Alan Erickson, Michelene Hearth-Holmes, Tina Mahajan, Bryant England, Marcus Snow, Mike Feely, Jennifer Medlin, Geoffrey Thiele and Kaleb Michaud
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  Catherine Hughes-Rose, 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 have an opportunity for some inpatient activities. Students will see patients in ambulatory clinics with different faculty at the main campus and also the VA Hospital. We see patients of all ages and socioeconomic status with both common and uncommon rheumatic diseases, such as rheumatoid arthritis, gout, lupus and vasculitis. Students are also required to participate in didactic lectures and case conferences.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>6</td>
</tr>
<tr>
<td>Clinic</td>
<td>28</td>
</tr>
<tr>
<td>Didactic conference</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**IMED-760  Off-Campus Internal Medicine Elective**
Periods Offered:  Each four weeks
Student Limit:  By Arrangement (Approval from Dr. Rae Witt)

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)

This course is NOT available to visiting students.

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>50-60</td>
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<tr>
<td>Didactic conferences</td>
<td>Daily</td>
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<tr>
<td>Independent learning</td>
<td>Many opportunities</td>
</tr>
<tr>
<td>Research project</td>
<td>Variable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Variable</td>
</tr>
</tbody>
</table>
**IMED-766A  General Medicine Internship Sub-internship**  
Periods Offered: Each four weeks
Student Limit: 6 total (4-Meyer Team, 2-Tower-Based Teams)
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 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. The student will also be responsible for attending morning teaching rounds, noon conferences, and Internal Medicine Grand Rounds during the time of the rotation.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
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<tr>
<td>Didactic conferences</td>
<td>10</td>
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<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
</tr>
</tbody>
</table>

**Tower-Based Teams**  
Faculty: Drs. Chelsea Navarrette, Trek Langenhan, and Rae Witt; UNMC Internal Medicine Faculty  
This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 3-6+ general internal medicine inpatients. The experience differs from the traditional “General Medicine Sub-internship” in several ways, including working 1-on-1 with an attending hospitalist. In addition, a majority of the rotation entails assuming the care of general medical patients admitted by the admitting team the day prior. The senior student then manages the patient for the remainder of the hospitalization on tower (geographically) based teams. The rotation allows the senior student the primary responsibility of pre-rounding, documenting the encounter, calling consultations, communication with the floor nurse, obtaining medical records, and working within the Interprofessional team. The day to day schedule mirrors that of their attending which includes no in-house call; however, the rotation includes an experience where they are assigned to the admitting team on nights (4 nights) or days (5 days). The student works with a different attending each week, generally 3-4 attendings/rotation. The student will also be responsible for attending Interprofessional daily rounds, noon conferences, and Internal Medicine Grand Rounds during the rotation.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
</tr>
<tr>
<td>Didactic Conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>25</td>
</tr>
</tbody>
</table>
**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 more responsibility and autonomy in the care of patients in the general internal medicine ambulatory setting. 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 have the opportunity to learn and practice acute and chronic care management, pre-operative management, and preventative care. They will see patients, write notes, and make follow-up calls pertinent to their patients.

This course is NOT available to visiting students.

**Med-Peds**

**Faculty:** Drs. Rachel Johnson, Daniel Jeffrey, Sarah Smith, Jennifer Park, Eamon Maloney, Susan Hollins 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 give 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. 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.
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.  

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>0</td>
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<td>Independent learning</td>
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</tr>
<tr>
<td>Research project</td>
<td>40</td>
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<td>Independent patient care</td>
<td>0</td>
</tr>
</tbody>
</table>

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.
MEDICAL INTERDEPARTMENTAL

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

Objective:
To introduce students to basic mechanisms involved in the mediation of acute and chronic heart failure. Concentration on contractile, electrophysiological and neurohumoral dysfunction. 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; Sympathoexcitation 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 selective 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 selective 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 selective 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 selective 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 selective.

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
Students will broaden their understanding of health care from the literary, humanistic, and social standpoints by reflecting on and discussing selected works.

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 noted interpretations of medicine in literature and social science, such as: The Doctor Stories, Being Mortal, The Emperor of All Maladies, Cutting for Stone, Five Days at Memorial, The House of God, The Immortal Life of Henrietta Lacks, The Spirit Catches You and You Fall Down, Blood and Bone (collected poems), The Citadel, When Breath Becomes Air, selections from On Doctoring. Three films will be shown followed by discussion, such as: A Civil Action, The Verdict, The Doctor, Contagion, Something the Lord Made, Vera Drake, Supersize Me, Extremis. The meeting schedule, readings, and films will be established by agreement of the faculty and students on the first day of the rotation.

Student Activities:
Students will divide into two groups of ten. The groups will meet four times (typically weekly) to discuss the chosen literature and view the chosen films. The final meeting will also include presentation of individual projects. Meetings typically are 4 hours in duration and include viewing a film (or presenting projects).

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.
 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 transparency 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 the healthcare concerns and to provide medically and culturally competent healthcare to this sexual minority and vulnerable 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.

Each student will keep a reflective journal in which the student will record his/her observations and analysis of patients seen and sites visited. This journal will be reviewed with the student by faculty. Visits to various agencies will be arranged and include the following among others:
- PFLAG (Parents, Families, and Friends of Lesbians and Gays) meeting
- GSA (Gay Straight Alliance) meeting at Creighton/UNO
- 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

Activity Hours/Week
Didactic conferences 6
Independent learning 12
Reflective journal 2
Patient care 12
Agency site visits 8
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Number of Weeks</th>
<th>Available Times</th>
<th>Student Limit</th>
<th>Primary Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-ID-763</td>
<td>Individualized Research Program</td>
<td>4</td>
<td>4</td>
<td>Varies (July through May excluding December)</td>
<td>Open</td>
<td>Dr. Richard MacDonald</td>
</tr>
</tbody>
</table>

If you are interested in pursuing a selective that is not offered in this handbook, permission must be granted by Dr. Richard MacDonald, Senior Selective 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 selective, you must receive the approval of Dr. Richard MacDonald **prior** to registration.

**Any research project involving an IRB must have IRB approval BEFORE the selective 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/Diego Torres-Russotto, M.D., drtorres@unmc.edu
Student Coordinator/Arianne Marcoux, Arianne.marcoux@unmc.edu
CTS – 2nd Floor
402-552-2153

**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: Arianne Marcoux – 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. The rotation then has to be recommended by the student’s advisor and approved by the Elective Director (Dr. Torres) at least two months in advance of the elective start date.

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

OBGY-710 Advanced Outpatient Obstetrics and Gynecology
Karen Carlson, 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
Karen Carlson 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
Steve Remmenga, M.D. and Kerry Rodabaugh, 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 required during the rotation, or a case report for publication. This course meeting 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
Victoria Maclin, M.D.
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
OGBY-726  Ultrasound
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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>12-16</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Outpatient ultrasound</td>
<td>16-24</td>
</tr>
<tr>
<td>Surgery</td>
<td>0</td>
</tr>
</tbody>
</table>

OGBY-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.
**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 senior elective functions as a subinternship in clinical ophthalmology which includes experiences in all areas of general ophthalmologic diagnosis and therapy. Within this wide field, the following areas will be emphasized:

1. 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, visual field, color vision and other testing procedures designed to detect dysfunction of any components of the visual system;
3. Direct examination of the visual system including pupillary exam, measurement of intraocular pressure, the use and limitations of slit-lamp, direct and indirect ophthalmoscopy; and
4. Observation and participation in ocular surgical procedures.

The goal of this program is to lay a firm foundation of basic 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical patient care</td>
<td>30</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>Many opportunities</td>
</tr>
<tr>
<td>Research project</td>
<td>Variable</td>
</tr>
<tr>
<td>Surgical Observation</td>
<td>4-6</td>
</tr>
</tbody>
</table>

**OPHT-725  International Ophthalmology Elective**

Periods Offered: By Arrangement  
Student Limit: By arrangement

This course is NOT available to visiting students.
OPHT-740 Ophthalmology/Otolaryngology Elective
Periods Offered: Each four weeks EXCEPT July or August
Student Limit: 2 (1 in each department at a time)

This course is NOT available to visiting students.

This is a combined elective within the Departments of Ophthalmology and Otolaryngology/Head and Neck Surgery. The student will rotate through both departments. The rotation is designed for students entering other specialties. It will lay the foundation of basic knowledge and diagnostic skills to aid the student in their specialty of choice. Students completing the rotation will be able to manage the common problems within each specialty and also be able to recognize those problems requiring specialty referral. The student will be able to treat those problems appropriate for a primary care physician. The student will be able to recognize those problems which necessitate referral to the appropriate specialist.

Further rotation details are found in the four week elective (OPHT-720 Clinical Ophthalmology) and (ORL-720 Otolaryngology) course descriptions.

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 and Scott Vincent
- **Gold Team** – (Adult Reconstruction): Drs. Kevin Garvin, Curtis Hartman and Beau Konigsberg
- **Green Team** – (Trauma): Drs. Matthew Mormino, Justin Siebler and Sara Putnam. (Foot and Ankle) Dr. Alex Sawatzke
- **Red Team** – Dr. Mark Dietrich and 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 prepare for cases he/she will be involved in.
- Student should be familiar with surgical approaches and anatomy specific to team and cases they are involved in.
Conference Schedule:
- Students will attend all resident and didactic teaching conferences
- Five medical student focused didactic lectures
  - One for each service given by faculty members
- Case based presentation on topic of choice picked by student and presented to faculty and housestaff
  - 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 Stephanie Jensen at sjensen@childrensomaha.org or 402-955-6317 for details.

This course is NOT available to visiting students.

This elective must be pre-arranged with Stephanie Jensen in Pediatric Orthopaedic at sjensen@childrensomaha.org or 402-955-6317.

For additional information please contact Stephanie Jensen at sjensen@childrensomaha.org or 402-955-6317.

Student Limit: 1

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.
The purpose of the elective in Otolaryngology is to acquaint the student to the scope of practice for the specialty. It is estimated that 50% of the patients in general medicine present with symptoms of ENT origin. 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 primarily 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. 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 and teaching conferences. The latter deal 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. Specific diagnostic and preoperative workups will be assigned by the Chief Resident, hopefully to include a range of different problems. 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. Additional time spent in the operating room should be with the approval of the resident in charge of the clinic. 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 Jenna Corsey (jenna.corsey@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 of the activities of the department, including all clinical responsibilities, operations and formal teaching exercises.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>5</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>5</td>
</tr>
<tr>
<td>Surgery</td>
<td>10-20</td>
</tr>
</tbody>
</table>
ORL-760  Off-Campus Elective in Otolaryngology
Periods Offered:  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
By Arrangement with the Department Chairman and Jayme Dowdall, M.D.

This course is NOT available to visiting students.
PATHOLOGY AND MICROBIOLOGY

Chair/Dr. Steven Hinrichs
(Clinical)/Dr. Subodh Lele
Educational Programs Coordinator: Kevin MacCarthy
3545 MSB, kevin.mccarthy@unmc.edu
402-559-7212

Students must make arrangements with Kevin McCarthy (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 month
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

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PAMM-730  Laboratory Medicine for The Practicing Physician  
Pathology Faculty: Dr. Geoffrey Talmon  
Periods Offered: Each month  
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  
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: 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.

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular Pathology</td>
<td>Dr. Radio</td>
</tr>
<tr>
<td>Clinical Chemistry</td>
<td>Dr. Sofronescu</td>
</tr>
<tr>
<td>Cytology</td>
<td>Drs. Baker, Lele, Radio, and Yuil-Valdes</td>
</tr>
<tr>
<td>Dermatopathology</td>
<td>Dr. DiMaio</td>
</tr>
<tr>
<td>ENT</td>
<td>Drs. Baker and Swanson</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>Dr. Pirruccello and Yuan</td>
</tr>
<tr>
<td>Gastrointestinal Pathology</td>
<td>Drs. Lazenby, Talmon, Cohen, and Swanson</td>
</tr>
<tr>
<td>Specialty</td>
<td>Medical Staff</td>
</tr>
<tr>
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<td>----------------------------------------------------</td>
</tr>
<tr>
<td>Gynecologic and Breast Pathology</td>
<td>Drs. Lele and Tseng</td>
</tr>
<tr>
<td>Hematopathology</td>
<td>Drs. Greiner, Fu, Qureishi, Yuan and Amador</td>
</tr>
<tr>
<td>Lung</td>
<td>Drs. Lele, Swanson and Punsoni</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Drs. Fey (Director), Hinrichs, and Iwen</td>
</tr>
<tr>
<td>Molecular Pathology</td>
<td>Drs. Cushman-Vokoun and Greiner</td>
</tr>
<tr>
<td>Neuropathology</td>
<td>Dr. Punsoni</td>
</tr>
<tr>
<td>Public Health Microbiology</td>
<td>Drs. Iwen, Fey, and Hinrichs</td>
</tr>
<tr>
<td>Renal Pathology</td>
<td>Drs. Foster and Talmon</td>
</tr>
<tr>
<td>Soft Tissue</td>
<td>Drs. DiMaio and Lauer</td>
</tr>
<tr>
<td>Transfusion Medicine</td>
<td>Dr. Koepsell</td>
</tr>
<tr>
<td>Transplantation Pathology</td>
<td>Dr. Radio</td>
</tr>
<tr>
<td>Urologic Pathology</td>
<td>Dr. Lele</td>
</tr>
<tr>
<td>Virology</td>
<td>Dr. Hinrichs</td>
</tr>
</tbody>
</table>
**PEDS-710 Pediatric Palliative Care (Sub-I)**
Drs. Meaghann Weaver and Andrew MacFadyen

**Periods Offered:** Each four weeks

**Student Limit:** 1

This course is NOT available to visiting students.

### Course Objectives
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).

**Medical knowledge**
- Recognize suffering to include physical (pain and distressing symptoms) and psychosocial, spiritual, and emotional layers
- Identify pharmaceutical and integrative therapy methods to manage complex symptoms to include chronic and acute pain, dyspnea, intractable nausea, seizures, and end of life symptoms
- Understand philosophies regarding patient-provider communication and ethical principles relevant to decision making

**Patient Care**
- Foster learning from various interdisciplinary team members (child life, healing touch practitioner, social worker, nurses, case manager) to recognize collaborate dynamics of palliative care
- Participate in mentored goals of care conversation and care plan development with patients and families

**Professionalism**
- Demonstrate compassion, empathy, integrity, respect, and altruism
- Reflect on the need for “care for the caregiver” (self-care) as part of professionalism and resiliency; learn about various self-care approaches to prevent compassion fatigue and to foster mindfulness in medicine

### Activities:
- Literature searches
- Readings
- Patient interaction
- Journal club presentation
PEDS-722 Pediatric Cardiology and Cardiovascular Disease  
Dr. Robert Spicer  
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. Lisa White  
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 or Miranda Downing, mdowning@childrensomaha.org, 402-955-5124 Administrative Contact for further information  

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  

Course Objectives  

Medical Knowledge  
- Describe the diagnosis and management of common pediatric emergency medicine problems  
- Demonstrate basic skills in the area of cardiopulmonary resuscitation  

Patient Care  
- Demonstrate a systematic approach to evaluating pediatric emergency patients  
- Manage time effectively in completing patient care tasks.  

Professionalism  
- Demonstrate integrity, compassion, respect, altruism and empathy when interacting with patients and families  
- Demonstrate punctuality and ability to complete patient care tasks efficiently.
Methods

Medical Knowledge
- Complete suggested readings as outlined in the course documents
- Participate in teaching sessions and conferences

Patient Care & Professionalism
- Evaluate patients in the emergency room and urgent care centers
- Communicate to patients and families diagnostic findings and various treatment options that fit within their social and cultural context.

Evaluation

Medical Knowledge, Patient care & Professionalism
- Global performance evaluation (100%)

Scheduled Activities

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shifts</td>
<td>12, 8-hour shifts</td>
</tr>
<tr>
<td>Research Project</td>
<td>0 hrs/wk</td>
</tr>
<tr>
<td>Didactic Conferences</td>
<td>2 hrs/wk</td>
</tr>
<tr>
<td>Independent Patient Care</td>
<td>0 hrs/wk</td>
</tr>
<tr>
<td>Independent Learning</td>
<td>6 hrs/wk</td>
</tr>
</tbody>
</table>

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

Dr. Kelly Kadlec

Periods Offered: Each four weeks

Student Limit: 1

Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu

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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds (Clinic)</td>
<td>70</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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</table>
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)
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, oncology, and hereditary cancer). 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)

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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
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<tr>
<td>Didactic conferences</td>
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<td>NICU Topic Presentation</td>
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<td>Independent learning</td>
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<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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**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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds/Clinic</td>
<td>40</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>2</td>
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<tr>
<td>Independent learning</td>
<td>0</td>
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<tr>
<td>Research project</td>
<td>0</td>
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<td>Independent patient care</td>
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</table>
PEDS-730 Pediatric Gastroenterology
Dr. Rubin Quiros
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Children’s GI Clinic

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. Louis 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 dysmorphologic 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 (including cystic fibrosis)
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 scopes 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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
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<tr>
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<tr>
<td>Research project</td>
<td>1</td>
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<tr>
<td>Independent patient care</td>
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PEDS-733 Allergy/Immunology
Dr. Hana Niebur and Russell Hopp
Periods Offered: Each four weeks
Student Limit: 1
Contact Person: Dr. Niebur – hana.niebur@unmc.edu

This course is NOT available to visiting students.

Course Objectives:
- Discuss the pathophysiology underlying allergic and immunologic diseases
- Independently perform patient histories and physical examinations
- Produce differential diagnoses and formulate appropriate diagnostic and treatment plans
- Review and evaluate evidence-based care in allergic and immunologic disease
- Assess use of multidisciplinary care appropriately

Instructional Methods

Will include active involvement in patient care in the 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.

Performance Assessment

Student performance will be assessed in 3 areas: medical knowledge, patient care, and systems-based practice. Evaluation of medical knowledge will consist of completing assigned readings, participation in teaching sessions, pre- and post-tests, and an oral presentation on a topic of the student’s choosing. Patient care and systems-based practice will involve a global evaluation of the evaluation and treatment of patients on the inpatient consult service at Children’s Hospital as available and in outpatient clinics, including multidisciplinary care of complex medical problems.

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. Geetanjali Rathore
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
Where to Report: E-mail Raven soschmidt@childrensomaha.org.

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. Cindy Ellis  
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.

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<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
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<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
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<td>Research project</td>
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<td>Independent patient care</td>
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PEDS-737 Pediatric Rheumatology  
Dr. Adam Reinhardt  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Information will be e-mailed prior to the first day.

This course is NOT available to visiting students.

The purpose of this elective is to provide students with practical experience in pediatric rheumatology. The experience gained through this elective will enable the student to diagnose and manage pediatric patients with rheumatologic disorders in primarily an outpatient setting although students will be involved in select inpatient consults. Under the guidance of a board certified rheumatologist, the student will see a broad spectrum of patient problems ranging in age from toddler to young adulthood. Students will be expected to present a topic of their interest the last week of the rotation and will participate in pre-test and post-testing to evaluate growth and identify areas of strengths and weaknesses.

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<tr>
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<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>30</td>
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<tr>
<td>Didactic conferences</td>
<td>5</td>
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<td>Independent learning</td>
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<td>Research project</td>
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<td>Independent patient care</td>
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PEDS-741 Pediatric Global Health Clinical Elective
Dr. Shirley Delair
Periods Offered: Variable
Student Limit: 4

This course is NOT available to visiting students.

Course Objectives:

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, the following objective should be met with the course requirements for grading:

a. Discuss relationship between health and the social determinants of health.
b. Identify barriers to health and healthcare in low- and middle-resource settings.
c. Demonstrate knowledge of the major causes of morbidity and mortality in the region in which they are working.
d. Demonstrate an understanding of healthcare delivery strategies in low and middle-resource settings.
e. Demonstrate an understanding of cultural and ethical issues in working with underserved populations.
f. Demonstrate the ability to adapt clinical skills and practice in a resource-constrained environment.
g. Demonstrate humility, flexibility, professionalism, and cultural sensitivity when working within a different healthcare context.

PEDS-742 Pediatric Nephrology
Dr. Teri Mauch
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Call Mary at 402-559-8851

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.

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<th>Activity</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>30</td>
</tr>
<tr>
<td>Didactic conferences</td>
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</tr>
<tr>
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<td>Research project</td>
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<tr>
<td>Independent patient care</td>
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PEDS-750 Honors Pediatrics
Dr. David Finken
Periods Offered: July, October, and March
Student Limit: 5
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”

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Tutorials</td>
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<tr>
<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Paper</td>
<td>1</td>
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**PEDS-751 Pediatrics Subinternship (wards)
Wards: Dr. Jason Burrows (CHMC)
Periods Offered: Each four weeks
Student Limit: 2
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. One track is for the student, functioning as a sub-intern for pediatric patients admitted at UNMC. The other option is for the student, functioning as a sub-intern, to admit, evaluate, manage and discharge patients on the wards at Children’s Hospital in a rotating fashion with pediatric interns. This will be done under the guidance and supervision of the senior pediatric resident and the attending physician. Admissions will be assigned to maximize the student’s exposure. The student will be expected to take in-house night call.

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<th>Activity</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>40+</td>
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<tr>
<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
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<tr>
<td>Research project</td>
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<tr>
<td>Independent patient care</td>
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</tbody>
</table>
**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 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.)

**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.
**PMR-710 Clinical Elective in Rehabilitation Medicine**

**Periods Offered:** Each four weeks  
**Student Limit:** 2  
**Staff:** Drs. Bierner, Anderson, Weaver, and Voto  
**Contact Person:** Jenna Corsey: jenna.corsey@unmc.edu

Course Objectives:
Physical medicine and rehabilitation (PM&R or physiatry) is a medical specialty concerned with diagnosis and treatment of functional impairments involving the neurological and musculoskeletal systems. PM&R encompasses the treatment of children and adults, and offers several subspecialty areas of concentration – pediatric rehab, brain injury medicine, neuromuscular disease, sport medicine, pain medicine and palliative care. The Clinical Elective in PM&R is designed to expose students to the principles of physical medicine and rehabilitation, and it includes inpatient and outpatient rotations. Inpatient rotations will include care of adults and children with major disabling illness or injury, and outpatient rotations will show such areas of interest as spasticity management; electrodiagnosis (EMG and nerve conduction study) and its application to outpatient diagnosis of disorders of the nerve or nerve root; and musculoskeletal diagnostic assessment and treatment of common painful disorders. Regular reading, student presentation at monthly journal club or other teaching conference, and satisfactory performance on an end-rotation written test of knowledge are mandatory components of the rotation.

1. Determine how to make appropriate patient referrals based on knowledge of PM&R  
2. Apply the evaluation of function as it relates to health and disease states.  
3. Demonstrate ability to perform a neuromusculoskeletal physical examination as part of the assessment of function.  
4. Discuss how PM&R physicians work as leaders of a team of rehabilitation professionals to assist patients in regaining function and returning to community.  
5. Describe the roles of physical and occupational therapy, speech and swallowing evaluations and role of neuropsychologists in comprehensive patient evaluation and treatment.
PSYCHIATRY

Chair: Howard Liu, M.D.
M4 Director: Rebecca Wysoske, M.D.
Clerkship Director: Sharon Hammer, M.D.
Undergraduate Program Coordinator: Sarah Kepple, Poynter Hall, 6th floor, room 4006

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 402-552-6235 to schedule an appointment with Dr. Rebecca Wysoske.

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. Aléna Balasanova, M.D., VaKara Meyer Karre, M.D., Kenneth Zoucha, M.D., and John Franzen, M.D.
Periods Offered: Each four weeks, EXCEPT November and December
Student Limit: 2

Substance use disorders (SUDs) frequently co-occur with primary 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 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 participate in 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 medication-assisted treatment, the use of psychosocial interventions and the principles of harm reduction. This elective is intended for M4s considering a career in psychiatry or primary care fields where psychiatric illness and substance use disorders are often diagnosed and managed.
**PSYC-723  Adult Inpatient Psychiatry Sub-Internship**  
**Sites:** UNMC Adult Crisis Unit or Lasting Hope Recovery Center (LHRC)  
**Staff:** Dr. Matthew Egbert, M.D.  
**Periods Offered:** Each four weeks  
**Student Limit:** Up to 2 students per site  

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 in the UNMC Adult Crisis Unit or 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. 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  
**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., and Andrew Baumgartner, 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 biopsychosocial 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**  
**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. Benton. An Off-Campus Elective Application Form must be submitted for this experience. (See Off-Campus Elective Application procedures.)
RADIOLOGY

Chair/Dr. Craig Walker
Dr. Melissa Manzer/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: 1336

RADI-720 Diagnostic Radiology
Faculty Contact: Melissa Manzer, 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, ultrasounds, 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 – Chris Vargo, M.D.
Periods Offered: Each four weeks
Student Limit: 1
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

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:  Shaun Capurro at 402-559-5388

RONC-722  Radiation Therapy  
Periods Offered:  Each four weeks  
Student Limit:  1  
Where to Report:  Dr. Charles Enke, Radiation Oncology, The Fred and Pamela Buffet Cancer Center-Sixth Floor, 8:30 a.m.

Cancer is relatively rare in the usual medical practice, although it ranks second as a cause of death. Since most patients with cancer, at some time in the course of their disease, will receive radiation therapy, this elective permits a concentrated exposure to the manifestations of malignant disease. The emphasis will be the evaluation of patients undergoing treatment with the various radiation therapy modalities. An attempt will be made via discussion of particular cases to correlate the roles of surgery, chemotherapy and radiation therapy.

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
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<tr>
<td>Didactic conferences</td>
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</tr>
<tr>
<td>Independent learning</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>2</td>
</tr>
<tr>
<td>Independent patient care</td>
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</table>

RONC-760  Off Campus Rad Once 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. Contact Shaun Capurro at 402-559-5388.
Please review the elective catalog for a list of available courses.

Fourth year elective rotations are designed to engage the student in integrating 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 and Wong  
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

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.

**SURG-720 Urology  
Drs. LaGrange, Deibert and B. Hill  
Periods Offered: Each four weeks  
Student Limit: By Arrangement  
Where to Report: Mary Monahan

Students are active participants in the team caring for patients. Students will be exposed to genitourinary 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. Raynor, Cusick, Abdessalam, and Fuller  
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 should consider the physiology, pathology and surgical care of a variety of surgical problems. The expectation is to work up, scrub and make rounds on as many patients as possible. Attendance at teaching conferences on Tuesday and Friday mornings is expected. Students may be asked to give a presentation at a conference. This is generally no more than 30 minutes and would involve a patient cared for by the service. Students are expected to come in on 1 day each weekend.

**SURG-725  Cardiac Surgery  
Drs. Merritt, Moulton, Siddique, Um, Castleberry and 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. Merritt will contact the student(s) prior to the rotation will instructions  

During this elective, the student will function as a sub-intern. An apprentice model is set where the student will be paired with one faculty per week and shadow that surgeon, participating in the pre-operative 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 evaluating cardiac and pulmonary disease, indications and contraindications for surgery in these patients, a thorough acquaintance with intra-operative cardiopulmonary bypass, invasive hemodynamic monitoring, and ventilator management, as well as familiarity with pharmacological agents utilized in the care of these patients.  

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  
Dr. Valmont Desa  
Periods Offered:  Each four weeks – August - June  
Student Limit:  1  
Where to Report:  Alex will send out an email 2 weeks prior to the rotation.  
This course is NOT available to visiting students.  

The elective is designed to acquaint the student with the technique of oral examination, diagnosis, treatment planning and surgical management of oral disease processes.

**SURG-727  Thoracic Surgery  
Drs. Lackner, Trujillo and Berkheim  
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  

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 and Kolkman  
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, Wheeler, Rivard  
**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.

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 each  
**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. Oleynikov, McBride, Kothari, 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.

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, hernia repair, bariatric and metabolic surgery. 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-743  Vascular Surgery  
Drs. Longo, Johanning, MacTaggart, Baxter, Pipinos, 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, and Reames  
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. Thayer, Silva-Lopez, Fingeret, and Maxwell  
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. Two weekends of call/rounding are expected during the four week rotation. No overnight call is assigned.

**SURG-746  Surgical Critical Care**  
Drs. Cantrell, Evans, Stothert, Cemaj, Buesing, Goede, Kemp, Bauman, Kaimen and Waibel  
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, Stothert, Cemaj, Buesing, Goede, Kemp, Bauman, Kaimen and Waibel  
**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, Stothert, Cemaj, Buesing, Goede, Kemp, Bauman, Kaimen and Waibel  
**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. Students 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**

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<thead>
<tr>
<th>MONTH</th>
<th>FIRST CHOICE</th>
<th>SECOND CHOICE</th>
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<tbody>
<tr>
<td>APR 2020</td>
<td>RADI 720 Diagnostic Radiology</td>
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<tr>
<td>MAY 2020</td>
<td>PEDS 722 Pediatric Cardiology and Cardiovascular Disease</td>
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<td>JUNE 2020</td>
<td>Curriculum Enhancement Rotation</td>
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<td>JUL 2020</td>
<td>ANES-720 Anesthesia</td>
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<td>AUG 2020</td>
<td>IMED-720 Adult Cardiology</td>
<td>EMED-761 (off Campus in VA)</td>
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<td>SEP 2020</td>
<td>SURG-730 Transplantation</td>
<td>EMED-761 (off Campus in CO)</td>
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<td>IMED-724 G.I.</td>
<td>IMED-722 General Medicine</td>
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<td>PEDS-728 Newborn Medicine</td>
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<td>IMED-751 Rheumatology</td>
<td>IMED-726 Infectious Disease</td>
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