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University of Nebraska College of Medicine
2019-2020 Academic Year

SEMESTERS
First Semester (M1)   August 26, 2019 – December 20, 2019
First Semester (M2)   August 26, 2019 – December 20, 2019
First Semester (M3)   July 1, 2019 – December 20, 2019
First Semester (M4)   July 8, 2019 – December 20, 2019
Second Semester (M1)  January 6, 2020 – May 31, 2020
Second Semester (M2)  January 6, 2020 – June 21, 2020
Second Semester (M3)  January 6, 2020 – June 28, 2020
Second Semester (M4)  January 6, 2020 – May 1, 2020

Phase 3 Elective Periods
April 2019   April 8, 2019 – May 5, 2019
May 2019   May 6, 2019 – June 2, 2019 (Memorial Day, May 27)
June 2019   June 3, 2019 – June 28, 2019
July 2019   July 8, 2019 – August 4, 2019
August 2019   August 5, 2019 – September 1, 2019
September 2019   Sept 3, 2019 – Sept. 29, 2019 (Labor Day Sept 2)
October 2019   September 30, 2019 – October 27, 2019
November 2019   October 28, 2019 – November 24, 2019
January 2020   January 6, 2020 – February 2, 2020 (MLK January 20)
February 2020   February 3, 2020 – March 1, 2020
March 2020   March 2, 2020 – March 27, 2020
Capstone Experience   April 6, 2020 – May 1, 2020
HONORS CONVOCATION   MAY 8, 2020 (Friday)
GRADUATION   MAY 9, 2020 (Saturday)

RECESSES AND HOLIDAYS
Summer Break (M4)   June 29, 2019 – July 7, 2019
Independence Day   July 4, 2019 (Thursday)
Labor Day   September 2, 2019 (Monday)
Thanksgiving (M1-M4)   November 28, 2019 – November 29, 2019
Fall Break (M3)   September 21, 2019 – September 29, 2019
Winter Recess (M1 – M4)   December 21, 2019 – January 5, 2020
New Year’s Day (Holiday)   January 1, 2020 (Wednesday)
Martin Luther King, Jr.   January 20, 2020 (Monday)
Spring Recess (M1)   March 7, 2020 – March 15, 2020
Spring Recess (M2)   March 21, 2020 – March 29, 2020
Spring Recess (M3/M4)   March 28, 2020 – April 5, 2020
Memorial Day   May 25, 2020 (Monday)
Summer Break (M1)   May 30, 2020 – August 24, 2020
Summer Break (M2)   June 20, 2020 – June 28, 2020
**SPECIAL EVENTS**  
Acute Care Block (Class of 2021 requirement) March 18, 2019 – March 29, 2019  
First Year Orientation August 19, 2019 – August 23, 2019  
Interprofessional Education Event #1 (M1) August 21, 2019  
White Coat Ceremony (M1) August 23, 2019 (Friday)  
FIRST DAY OF CLASS (M1) August 26, 2019 (Monday)  
FIRST DAY OF CLASS (M2) August 19, 2019 (Monday)  
Interprofessional Education Event #2 (M1) February 12, 2020  
Interprofessional Education Event (M2) February 26, 2020  
Honors Convocation (M4) May 8, 2020 (Friday)  
Commencement (M4) May 9, 2020 (Saturday)  

**CLASS OF 2021 – PHASE 2 ROTATION SCHEDULE**  

<table>
<thead>
<tr>
<th>PERIOD NUMBER</th>
<th>DATES OF PERIOD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2018 – 2019 Academic Year</strong></td>
<td></td>
</tr>
<tr>
<td>PERIOD 01</td>
<td>April 1, 2019 – April 14, 2019</td>
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<tr>
<td>PERIOD 02</td>
<td>April 15, 2019 – April 28, 2019</td>
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<tr>
<td>PERIOD 03</td>
<td>April 29, 2019 – May 12, 2019</td>
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<tr>
<td>PERIOD 04</td>
<td>May 13, 2019 – May 26, 2019</td>
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<tr>
<td>PERIOD 05</td>
<td>May 27, 2019 – June 9, 2019</td>
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<tr>
<td>PERIOD 06</td>
<td>June 10, 2019 – June 21, 2019**</td>
</tr>
<tr>
<td><strong>SUMMER BREAK</strong></td>
<td>June 22, 2019 – June 30, 2019</td>
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<tr>
<td><strong>2019 – 2020 Academic Year</strong></td>
<td></td>
</tr>
<tr>
<td>PERIOD 07</td>
<td>July 1, 2019 – July 14, 2019</td>
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<tr>
<td>INDEPENDENCE DAY *</td>
<td>July 4, 2019 (Thursday)</td>
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<tr>
<td>PERIOD 08</td>
<td>July 15, 2019 – July 28, 2019</td>
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<tr>
<td>PERIOD 09</td>
<td>July 29, 2019 – August 11, 2019</td>
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<tr>
<td>PERIOD 10</td>
<td>August 12, 2019 – August 25, 2019</td>
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<tr>
<td>PERIOD 11</td>
<td>August 26, 2019 – September 8, 2019</td>
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<tr>
<td>LABOR DAY*</td>
<td>September 2, 2019 (Monday)</td>
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<tr>
<td>PERIOD 12</td>
<td>September 9, 2019 – September 20, 2019**</td>
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<tr>
<td><strong>FALL BREAK</strong></td>
<td>September 21, 2019 – September 29, 2019</td>
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<tr>
<td>PERIOD 13</td>
<td>September 30, 2019 – October 13, 2019</td>
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<tr>
<td>PERIOD 14</td>
<td>October 14, 2019 – October 27, 2019</td>
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<tr>
<td>PERIOD 15</td>
<td>October 28, 2019 – November 10, 2019</td>
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<tr>
<td>PERIOD 16</td>
<td>November 11, 2019 – November 24, 2019</td>
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<tr>
<td>PERIOD 17</td>
<td>November 25, 2019 – December 8, 2019</td>
</tr>
<tr>
<td>THANKSGIVING*</td>
<td>November 28, 2019 - November 29, 2019</td>
</tr>
<tr>
<td>PERIOD 18</td>
<td>December 9, 2019 – December 20, 2019</td>
</tr>
<tr>
<td><strong>WINTER RECESS</strong></td>
<td>December 21, 2019 - January 5, 2020</td>
</tr>
<tr>
<td>Period</td>
<td>Dates</td>
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<tr>
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<tr>
<td>19</td>
<td>January 6, 2020 – January 19, 2020</td>
</tr>
<tr>
<td>MARTIN LUTHER KING, JR.*</td>
<td>January 20, 2020 (Monday)</td>
</tr>
<tr>
<td>20</td>
<td>January 21, 2020 – February 2, 2020</td>
</tr>
<tr>
<td>21</td>
<td>February 3, 2020 – February 16, 2020</td>
</tr>
<tr>
<td>22</td>
<td>February 17, 2020 – March 1, 2020</td>
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<tr>
<td>23</td>
<td>March 2, 2020 – March 15, 2020</td>
</tr>
<tr>
<td>24</td>
<td>March 16, 2020 – March 27, 2020**</td>
</tr>
<tr>
<td>SPRING RECESS</td>
<td>March 28, 2020 – April 5, 2020</td>
</tr>
</tbody>
</table>

** SERVICE ENDS ON FRIDAY

Office of Admissions & Student Affairs (01.28.2019)
Scheduling Instructions

Requirements for Graduation (Class of 2020) include the following:

Basic Required Clerkships:

- Family Medicine Community Preceptorship 6 weeks
- Internal Medicine Clerkship 9 weeks
- Obstetrics and Gynecology Clerkship 4.5 weeks
- Pediatrics Clerkship 6 weeks
- Psychiatry Clerkship 4.5 weeks
- Surgery Clerkship 6 weeks
- 3 Months exploratory rotations April, May, June

SENIOR YEAR IS 10 MONTHS LONG (July-April)
- Minimum of 7 months of electives 4 weeks/each
- Senior Selective (M4 year) 4 weeks
- Capstone (April of M4 year) 4 weeks

The last page of this handbook is a sample scheduling worksheet. Copies of worksheets are available from the Office of Admissions and Student Affairs and online at unmc.edu/com/curriculum/m3-m4/senior-courses.html.

Elective Scheduling

ALL electives are pre-arranged with the department coordinators. After completing the paper schedule, students will enter the pre-arranged choices in OASIS (https://oasis.unmc.edu/index.html), the College of Medicine’s online student scheduling system. Coordinators will then approve or deny registration. Elective choices will be denied if they were not pre-arrange before entering the elective in OASIS.

Scheduling Timetable

February 2019:
The 2019 - 2020 Senior Elective Handbook and 2019 - 2020 Senior Selective Handbook will be available. Schedule an appointment to meet with your Clinical Curriculum Advisor to work on your scheduling worksheet, which can be found online at unmc.edu/com/curriculum/m3-m4/senior-courses.html as well as in this handbook.

Students may begin contacting coordinators by email on Sunday, February 17, 2019 at 6 PM to request electives.

March 2019:
Deadline for submitting first choice options in OASIS
Friday, March 22, 2019
All electives must be approved before entering them into OASIS. All months of the M4 year must be completed in OASIS with a combination of UNMC courses, up to 3 away rotations, and up to 1 month of vacation.
Please select a UNMC elective for any tentative away rotations to guarantee a placement for each month of your senior year. Coordinators will approve or deny requests for electives which should be discussed with coordinators BEFORE being entered into OASIS. Requests to replace denied options can be entered as they occur.

April 2019:
Schedules are reviewed by Student Affairs and Advisors for necessary adjustments. Check My Records and clear any holds to prepare for registration. Immunization updates should be submitted during April.

May 2018:
Tentative schedules are finalized in OASIS. An email notifying that Drop/Adds can begin will be sent and can then occur UNTIL May 17, 2019.

Registration will take place. Your schedule then becomes a registration record in the Office of Academic Records. After this occurs, any change to your schedule will require a drop/add during specified weeks. (Please see detailed drop/add procedures).

Scheduling Details
• If you are planning a vacation please indicate so by signing up for:
  o OASA_900 Vacation in OASIS

• Electives may be taken off-campus (out of Nebraska) with prior departmental approval. The most current information about off-campus electives can be obtained from VSAS (Visiting Student Application Service) – www.aamc.org/students/medstudents/vsas/ or the visiting school’s website. (Please see off-campus elective procedures).

• Sign-up for the appropriate departmental away rotation in OASIS for any out-of-state rotations you are planning to take. These will not be approved until you have been accepted and completed the necessary Application for Off-Campus Elective through the department.

• It is highly advised to have an advisor look over your desired schedule.

• If you have questions pertaining to scheduling please contact Lisa Paquette (lisa.paquette@unmc.edu, MSC 4044).

• Questions specific to electives should be directed to the department’s coordinator.
Career planning

The Office of Student Affairs offers career choice counselling – Dr. Grant and Dr. Erickson are available to meet by appointment – contact the Office of Admissions and Student Affairs to make an appointment.

As students narrow down their choice of specialty they should identify faculty in the department of that specialty as mentors and advisors. Ideally choice of career specialty should be made by the start of the fourth academic year so that elective choices are appropriate.

Residency Career Advisor:
Below is the listing of the primary residency advisors for each department. They are available to students thinking of entering that field. These advisors are knowledgeable about residency programs and strategies for applications in that field.

CLINICAL CURRICULUM ADVISORS

ANESTHESIOLOGY
Austin Adams, M.D.
Madhuri Are, M.D.
Amanda Arnzen, M.D.
Rachel Austin, M.D.
Joe Baus, M.D.
Kristina Birch, M.D.
Tara Brakke, M.D.
Tom Brooks, M.D.
Beth Burton, M.D.
Megan Chacon, M.D.
Amy Duhachek-Stapelman, M.D.
Jessica Easton, M.D.
Sheila Ellis, M.D.
Erin Etoll, M.D.
Brad Fremming, M.D.
Katie Goergen, M.D.
Jeremy Hartley, M.D.
Ali Hascall, M.D.
Nick Heiser, M.D.
Kim Haynes Henson, M.D.
Scott Hofmann, M.D.
Richard Holcomb, M.D.
Terry Huang, M.D.
Andrew Ingemansen, M.D.
Dan Johnson, M.D.
Kyle Johnson, M.D.
Joe Kalamaja, M.D.
Sean Karre, M.D.
ANESTHESIOLOGY CONT’D
Cale Kassel, M.D.
Michael Lankhorst, M.D.
Steven Lisco, M.D.
Nick Markin, M.D.
David Marti, M.D.
Maria Michaelis, M.D.
Tom Nicholas, M.D.
Platt Niebur, M.D.
John Ohnoutka, M.D.
Huiling Pang, M.D., Ph.D.
Andrew Patterson, M.D. Ph.D.
K. Reed Peters, M.D.
Cathleen Peterson-Layne, M.D., Ph.D.
Angie Rakes, M.D.
Jennifer Rasmussen, M.D.
Kyle Ringenberg, M.D.
Ellen Roberts, M.D.
Nancy Rogic, M.D.
Tom Schulte, M.D.
Sasha Shillcutt, M.D.
Jean Simonson, M.D.
David Stern, D.O.
Jim Sullivan, M.D.
Shaun Thompson, M.D.
Jennifer Uggen, D.O.
Maulin Vora, M.B.B.S.
Charles Walcutt, M.D.
Corey Zetterman, M.D.

DERMATOLOGY
Jennifer Abrahams, M.D.
Megan Arthur, M.D.
Adam Sutton, M.D.
Ryan Trowbridge, M.D.
Ashley Wysong, M.D.

EMERGENCY MEDICINE
Claudia Barthold, M.D.
Chad Branecki, M.D.
Amy Cutright, M.D.
T.J. Welniak, M.D.

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

INTERNAL MEDICINE
Nathan Anderson, M.D.
Micah Beachy, D.O.
Philip Bierman, M.D.
Amy Cannella, M.D.
INTERNAL MEDICINE CONT’D
Julie Fedderson, M.D.
Anne Kessinger, M.D.
Lynell Klassen, M.D.
Ted Mikuls, M.D.
Gerald F. Moore, M.D.
J. Scott Neumeister, M.D.
David O’Dell, M.D.
James O’Dell, M.D.
Jennifer Parker, M.D.
Craig Piquette, M.D.
Troy Plumb, M.D.
Jane Potter, M.D.
Elizabeth Reed, M.D.
Debra Romberger, M.D.
Daniel Schafer, M.D.
Jason Shiffermiller, M.D.
Joseph Sisson, M.D.
Thomas Tape, M.D.
Austin Thompson, M.D.
Andrew Vasey, M.D.
Chad Vokoun, M.D.
Julie Vose, M.D.
John Windle, M.D.
Ray Witt, M.D.
Renee Young, M.D.

MEDICINE-PEDIATRICS
Allison Ashford, M.D.
Jennifer Parker, M.D.

NEUROLOGY
John M. Bertoni, M.D.
Danish Bhatti, M.D.
T. Scott Diesing, M.D.
Pierre Fayad, M.D.
J. Americo Fernandes, M.D.
Harris A. Frankel, M.D.
Marco Gonzalez-Castellon, M.D.
Amy Hellman, M.D.
Sachin Kedar, M.D.
Mac T. McLaughlin, M.D.
Daniel Murman, M.D.
Matthew Rizzo, M.D.
Olga Taraschenko, M.D.
Pariwat Thaisetthawatkul, M.D.
Diego Torres-Russotto, M.D.
Rana K. Zabad, M.D.
NEUROSURGERY
Michele Aizenberg, MD
Kenneth Follett, PhD
Les Hellbusch, MD
Douglas Long, MD
Mark Puccioni, MD
Daniel Surdell, MD
William Thorell, MD
John Treves, MD

OBSTETRICS AND GYNECOLOGY
N. Jean Amoura, M.D.
Teresa G. Berg, M.D.
Karen Carlson, M.D.
Laura Cudzilo, M.D.
Katherine Finney, M.D.
Jennifer Griffin, M.D., M.P.H.
Sonja R. Kinney, M.D.
Katherine L. Lessman, M.D.
Ramzy Nakad, M.D.
Steven W. Remmenga, M.D.
Kerry Rodabaugh, M.D.
Kristen Rooney, M.D.
Carl V. Smith, M.D.
Marvin L. Stancil, M.D.
Sylvia Ziegenbein, M.D.

OPHTHALMOLOGY
Deepta Ghate, M.D.
Vikas Gulati, M.D.
Shane Havens, M.D.
Ron Krueger, M.D.
Shannon Lynch, M.D.

ORAL SURGERY (SECTION OF) – SURGERY
Valmont Desa, D.D.S., M.D.

ORTHOPAEDIC SURGERY AND REHABILITATION
Chris Cornett, MD
Miguel Daccarett, MD
Mark Dietrich, MD
Paul W. Esposito, MD
Kevin L. Garvin, MD
Hani Haider, PhD
Curtis Hartman, MD
Brain Hasley, MD
Layne Jenson, MD
Beau Konigsberg, MD
Sean McGarry, MD
Joseph Morgan, MD
Matthew A. Mormino, MD
Susan A. Scherl, MD
Philip Steubel, MD
Matthew Teusink, MD
Megan Wallace, MD
OTOLARYNGOLOGY – HEAD AND NECK SURGERY
Christie Barnes, MD
Chris Bingcang, MD
Dwight T. Jones, MD
Samuel Pate, MD

PATHOLOGY AND MICROBIOLOGY
Dominick DiMaio, M.D.
Timothy C. Greiner, M.D.
Subodh Lele, M.D.
Geoffrey Talmon, M.D.
James Wisecarver, M.D., Ph.D.

PEDIATRICS
Jill Beck, M.D.
Ann Anderson-Berry, M.D.
John Colombo, M.D.
Don Coulter, M.D.
David Finken, M.D.
James Harper, M.D.
Hao (Howard) Hsu, M.D.
John Kugler, M.D.
Amy LaCroix, M.D.
Stefanie Lowas, M.D.
Sheryl Pitner, M.D.
Sheilah Snyder, M.D.

PEDIATRICS CONT’D
John Sparks, M.D.
Sharon Stoolman, M.D.
John Walburn, M.D.

PEDIATRIC SURGERY (SECTION OF) – SURGERY
Shahab Abdessalam, M.D.
Robert Cusick, M.D.
Megan Fuller, M.D.
Brian Jones, M.D.
Stephen Raynor, M.D.

PSYCHIATRY
Jenna Benton M.D.
Sharon Hammer, M.D.
Howard Liu, M.D.
Sheritta Strong, M.D.
Steven Wengel, M.D.

RADIATION ONCOLOGY
Charles A. Enke, M.D.
Chi Lin, M.D.
Robert Thompson, M.D.
Andrew Wahl, M.D.
Weining Zhen, M.D.
RADIOLOGY
Matthew DeVries, M.D.
Neil Hansen, M.D.
Jason Helvey, M.D.
Sushama Kunnathil, M.D.
Melissa Manzer, M.D.
Jennifer Oliveto, M.D.
Dick Slater, M.D.
Chris Vargo, M.D.

SURGERY
Charity Evans, M.D.
Abbey Fingeret, M.D.
Wendy Grant, M.D.
Sean Langenfeld, M.D.
PJ Schenarts, M.D.
Tiffany Tanner, M.D.
Jon Thompson, M.D.

UROLOGY (SECTION OF) – SURGERY
Chris Deibert, M.D.
Brett Hill, M.D. (Methodist)
Chad LaGrange, M.D.

RESIDENCY CAREER ADVISORS

ANESTHESIOLOGY
Amy Duhachek-Stapelman, M.D.
Sheila Ellis, M.D.
Katie Goergen, M.D.
Nicholas Heiser, M.D.
Andrew Patterson, M.D., Ph.D.
Jean Simonson, M.D.
Charles Walcutt M.D.

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Timothy C. Greiner, M.D.
Subodh Lele, M.D.
Geoffrey Talmon, M.D.
James Wisecarver, M.D., Ph.D.
ELECTIVES

During the senior year, each student (with the advice of an advisor), will be encouraged to choose five electives from their primary area of interest from the “elective list” for that area (not the department specifically). Each department has provided a list of electives. These electives have been determined to be appropriate for students entering that field. An advisor should be chosen from the list of Clinical Curriculum Advisors in a “primary” area of interest, or if an area is not represented, an advisor from any one of these areas may be chosen and the “generic” elective list will be used. Modification of the elective list should be made ONLY with the advice of the faculty advisor.

Directions

1. Determine your primary area of interest.
2. Select Advisor from Clinical Curriculum Advisors.
3. Meet with Clinical Curriculum Advisor and discuss scheduling opportunities from “elective” list for primary area of interest.
5. Contact coordinators for approval (space availability etc.)
6. Enter selections into OASIS.

ELECTIVE LISTS

ANESTHESIOLOGY
Anesthesiology
Adult Cardiology
Consultative Medicine
Critical Care Anesthesiology
Diagnostic Radiology
Emergency Medicine
General Medicine Subinternship at UNMC
Interventional Radiology
Otolaryngology
Pulmonary Medicine

EMERGENCY MEDICINE
Anesthesiology
Adult Cardiology
Adult ICU
Dermatology
Emergency Medicine
Ophthalmology
Orthopaedic Surgery
Otolaryngology
Pediatric ICU
Radiology
SICU/Trauma ICU
Trauma Surgery
EMED electives (here or away) to include HBO, toxicology, peds ED, ultrasound
FAMILY MEDICINE
Anesthesia
Diagnostic Radiology
Emergency Medicine
Family Medicine
Internal Medicine
Geriatrics
Neurology
OBGYN
Orthopedic Surgery
Pediatrics
Psychiatry
Physical Medicine and Rehabilitation
Surgery

INTERNAL MEDICINE
(Internal Medicine electives should be limited to 3-4).
Emergency Medicine
Any Internal Medicine elective
Ophthalmology
Anatomic Pathology
Radiology
Surgery (any elective)

MEDICINE-PEDIATRICS
(Internal Medicine and Pediatrics electives should be limited to 1-2 each).
Any Internal Medicine elective
Any Pediatric elective
Anesthesia
Emergency Medicine
Radiology
Women’s Health
*ICU in either Pediatrics or Internal Medicine and Subinternship in the other

NEUROLOGY
Clinical Neurology
Neurology Research
Off-Campus Neurology elective

NEUROSURGERY
Anesthesiology
Critical Care
Diabetes, Endocrine and Metabolism
Infectious Disease
Neurology
Neuroradiology
Neurosurgery
Neurosurgery Research
Neuro-Ophthalmology
Orthopaedics
Otolaryngology
Pain Management
Plastic Surgery
OBSTETRICS AND GYNECOLOGY
(Any OB-GYN elective)
Adult Intensive Care
Anesthesiology
Dermatology
Diabetes, Endocrine and Metabolism
Genetics and Metabolic Disease
Hematology/Oncology
MICU
Newborn Medicine
Nephrology
Psychiatry
SICU/Trauma
Surgical Pathology
Urology
Women's Health

OPHTHALMOLOGY
Anesthesiology
Emergency Room
General Medicine
Neurology
Ophthalmology
Otolaryngology
Clinical Pathology
Pediatrics (any elective)
Radiology
Rheumatology
Plastic Surgery
Diabetes, Endocrine and Metabolism

ORTHOPAEDIC SURGERY AND REHABILITATION
Anesthesiology
Adult Cardiology
Clinical Pathology
Diabetes, Endocrine and Metabolism
General Medicine
Neurology
Neurosurgery
Orthopaedics
Pediatrics (any elective)
Radiology
Surgery (any elective)
Trauma
OTOLARYNGOLOGY – HEAD AND NECK SURGERY
Adult Gastroenterology
Adult Pulmonary
Anesthesiology
Cardio-Thoracic Surgery
Diabetes, Endocrine and Metabolism
General Surgery
Hematology/Oncology
Neurosurgery
Ophthalmology
Pediatrics (any elective)
Plastic Surgery
Radiation Therapy
Surgical Critical Care

PATHOLOGY
Cytopathology
ENT/Lung
Gastrointestinal pathology
General pathology
Hematopathology
Molecular genetics
Obstetrics & Gynecology
Surgical pathology

PEDIATRICS - (Pediatric electives should be limited to 3-4).
Anesthesiology
Internal Medicine (any elective)
Otolaryngology
Clinical Pathology
Pediatrics (any elective)
Psychiatry (any elective)
Radiology
Pediatric Surgery

PSYCHIATRY
Adult Ambulatory Neurology
Emergency Medicine
Family Medicine or Internal Medicine
Geriatric Medicine
Pain Management
Pediatric Neurology or Developmental Pediatric Practicum
Pediatrics (any elective)
Women’s Health

RADIOLOGY
Emergency Room
Inpatient General Medicine
General Medicine
Adult Gastroenterology
Renal
Hematology/Oncology
Adult Pulmonary
Orthopaedics
Clinical Pathology
Newborn Medicine
SURGERY
Adult Cardiology
Adult Gastroenterology
Anesthesiology
Critical Care – Surgical, Medical, Anesthesia
Diabetes, Endocrine, and Metabolism
Emergency Room
Infectious Disease
Nephrology
Ortho, Urology, NGS, PRS, ENT
Pain Management
Radiology
Surgery (Any Elective)
Surgical Pathology
THE ELECTIVE PROGRAM

Electives in Omaha
Students doing an elective in Omaha should consult the roster of electives and the descriptions provided in this handbook. The elective director may be consulted for specific information about the program.

Drop/Add Procedures
Once registration takes place (through the Office of Academic Records), the elective schedule becomes a registration record and the drop/add procedures must be followed to make changes.

After registration, notice of TWO WEEKS is required to change elective selections. Students should understand that elective directors must develop rotation schedules well in advance of the start of the clerkship/elective and, therefore, failing grades may be recorded for students who drop an elective selection less than two weeks from initiation.

Drop/Add occurs monthly and you will be informed of the dates available to work with department coordinators in making changes to the schedule. First check with the department for which an elective is to be added. If space is available and approved, contact the department coordinator for the currently scheduled course in that time slot and request a drop. Finally, place the add request in OASIS for final approval from the new course’s department coordinator.

You will only be allowed to change your schedule a total of three (3) times during the academic year. Please plan accordingly.
OFF-CAMPUS ELECTIVES

Students may take no more than three (3) elective months off-campus during the clinical years. Each elective must be approved by the appropriate department.

International Electives:
As part of the paperwork required for international electives, an affiliation agreement must be obtained prior to leaving campus. The sponsoring department at UNMC must obtain a signed copy of the affiliation agreement and file it with the Vice Chancellor’s Office prior to the last drop/add deadline that precedes the month of the rotation. Failure to have the document signed will result in no credit for the student. Students need to meet with Sara Pirtle for International approval.

To make certain the educational experience will be productive and to ensure that students have access to the best information available, the procedures outlined below must be followed.

- The student makes formal application to the off-campus institution – either through VSAS (Visiting Student Application Service) or by written application.

- Once approved for the off-campus experience, the student must complete the “Application for Off-Campus Elective” form in its entirety.
  - The student must be in good academic standing as determined by the Office of Admissions and Student Affairs.
  - Student must present a copy of the offer from the institution to be attended to the department for approval.
  - Section I and Section II of the form must be completed prior to return to the Office of Admissions and Student Affairs (for International Electives: both the sponsoring department and Sara Pirtle must sign the form)
  - Please supply complete information on the form!

- The student should work with the department coordinator to organize the required evaluation form for the off-campus elective. A grade cannot be given without the completion of an approved evaluation form from the attending institution.

It is the student’s responsibility to alter their schedule to reflect the off-campus elective. The Drop/Add deadline dates will apply for off-campus electives in the same manner as a change occurs in a UNMC elective.

STUDENTS are allowed a maximum of three months (3 months) off campus during their fourth year. The following courses listed in the handbook are considered in the total of three months off-campus:

FMED-750 International Health
OPHT-725 International Ophthalmology Elective
Guidelines for dropping electives are the same for off-campus electives as for those in Omaha, unless the host institution has more stringent requirements.

The status of a UNMC student at the off-campus institution is that of a visiting non-credit student. Tuition is paid at UNMC and UNMC transcript credit is given by the sponsoring department when, upon completion of the elective, an evaluation of the student’s performance has been received.

It is the responsibility of the STUDENT at UNMC to supply the off-campus institution with an evaluation form for the off-campus elective experience. Please obtain the proper evaluation form from the sponsoring department at UNMC. Each department has a specific evaluation form to be used.

Students requesting more than three months off-campus during their senior year must submit that request, IN WRITING, to the Curriculum Committee prior to the start of the senior year. Requests for more than three months made later than that date (i.e. during the year) will not be approved.

If you have any questions regarding the off-campus elective procedures, please do not hesitate to contact the Office of Admissions and Student Affairs.
OFF-CAMPUS ELECTIVES – Instructions for completing paperwork for other institutions:

Some off-campus institutions have their own off-campus elective application form that you must complete and submit, along with several items. This varies according to the off-campus institution.

The Office of Admissions and Student Affairs completes the application form where it indicates “school official, dean, or designee.” Student Affairs certifies that you are:

1. A student in good academic standing
2. You will be at the fourth year (senior) level when you take the elective
3. You will pay tuition at this institution while away from campus
4. You are covered by both liability and health insurance while away from this campus
5. You will receive academic credit for this experience
6. You have received HIPAA training and training in blood borne pathogens
7. An evaluation of your performance will be required upon completion of the elective

TRANSCRIPTS: Many institutions request an official transcript of your medical school performance. You must order an electronic transcript through MyRecords to be sent directly to Lisa Paquette.

HIPAA Training: If you need to provide certification of HIPAA training and/or any other training, you can access documentation at https://net.unmc.edu/care. You would select the “my requirements” link from the menu. Click on the printer icon. A pop up window appears allowing you to print certificates for all completed requirements or you have the option to select specific requirements. If you have questions or encounter a problem with obtaining proof of your training, please call the Compliance Coordinator on campus (402-559-3929).

LIABILITY COVERAGE: Proof of liability coverage is obtained from Amy Lamer in the Risk Management Office. Please contact Amy by e-mail at alamer@unmc.edu.

HEALTH INSURANCE COVERAGE: Proof of health insurance coverage is your responsibility. Many institutions will accept a photocopy of your student health insurance card. Others may want an official letter from this institution, outlining the coverage. If this is the case, you must contact Pat Oberlander at (402-559-7276) or by e-mail poberlander@unmc.edu.

IMMUNIZATIONS: Many institutions want proof of immunizations. This information can be obtained from Student Health. Student Health can be reached at (402-559-5158/ 402-559-5691) or by e-mail at studenthealth@unmc.edu.
USMLE STEP 1: Many institutions want proof that you have successfully completed USMLE Step 1. The Office of Student Affairs does not have access to your report. Students can request a copy of their scores through NBME.

EVALUATION OF YOUR PERFORMANCE WHILE AT THE OFF-CAMPUS INSTITUTION:
In order to receive credit for your performance at the off-campus institution, the institution you attend must be provided with an evaluation form from our College of Medicine that they will complete and return. Every department has their own evaluation form and you must contact the appropriate department for the form. Some departments will send the form to the institution; others may want you to take the form with you. Regardless of how the departments operate – THE EVALUATION FORM IS YOUR RESPONSIBILITY. If the sponsoring department here does not get an evaluation from the off-campus institution, you do not receive a grade and/or credit for the rotation.

If you have any questions concerning any of the above information and/or the procedures for off-campus electives, please do not hesitate to contact Lisa Paquette (lisa.paquette@unmc.edu) in the Office of Admissions and Student Affairs.

Thank you!
UNIVERSITY OF NEBRASKA MEDICAL CENTER – COLLEGE OF MEDICINE
APPLICATION FOR OFF-CAMPUS ELECTIVE

Instructions: Use one form for each off-campus elective. Fill out Section I, obtain departmental approval on Section II and return to the Office of Admissions and Student Affairs. This form must be completed before the student leaves campus.

Student Name: _____________________________________________

SECTION I: DESCRIPTION OF OFF-CAMPUS ELECTIVE (completed by student)

UNMC Rotation # ___________ Off-Campus Crse Name __________________________
(This should be an Off-Campus # for the dpt you will receive a grade from)

Off–Campus Institution ____________________________________________
City __________________________ State __________________________
Contact Name __________________________ Contact Phone # __________________
Contact Email __________________________ Rotation dates ________________
☐ These dates do NOT coincide with UNMC rotations

SECTION II: DEPARTMENTAL APPROVAL (completed by UNMC department)

The student named above has permission to take the off-campus elective described for credit from this department. The off-campus institution will be furnished an evaluation form to be returned to the UNMC department granting approval.

Approved by: _____________________________________________
(Signature)

Department: ____________________________________________
Date: ____________________________________________

SECTION III: ACADEMIC STANDING (completed by Office of Admissions and Student Affairs)

The student named above is in good academic standing and permission is granted to participate in this elective experience.

Approved by: _____________________________________________
(Signature) (Program Coordinator, Office of Admissions and Student Affairs)

Date: ____________________________________________

Copies to: _____ UNMC Sponsoring Department _____ UNMC Student
____ UNMC Student File

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GRADUATION REQUIREMENTS

Basic Clerkships (Junior Year)

Family Medicine Community Preceptorship  6 weeks
Internal Medicine 9 weeks
Obstetrics and Gynecology 4.5 weeks
Pediatrics 6 weeks
Psychiatry 4.5 weeks
Surgery 6 weeks

Senior Curriculum (10 months – July through April)

Minimum of 7 months of electives 4 weeks/each
Senior Selective (M4 year) 4 weeks
Capstone (April of M4 year) 4 weeks

9 Months of scheduled courses are required

Vacation
Students are allowed one month of vacation to be taken during the senior year.

BLS and ACLS
Certification in Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS) are requirements for graduation. A separate notification will be mailed to you prior to the start of the senior year.

OSCE
During the senior year, you will be required to perform an Objective Structured Clinical Examination (OSCE). This OSCE consists of four cases and is very similar in format to the USMLE Step 2 Clinical Skills (CS) Examination.

The cases cover all areas (emergency medicine, surgery, pediatric, obstetrics, psychiatry and medicine) of ambulatory care. You will be scheduled for the test sometime during the months of September through November. A minimum performance will be required. Appropriate remediation will be arranged should you fail to perform at a minimum level.

USMLE Step 2 CK (Clinical Knowledge) & CS (Clinical Skills):
You must register to take by April 1 of your senior year.
PROCEDURAL SKILLS

A task force has developed a list of skills for which medical students must demonstrate proficiency, or minimal experience with, prior to graduation. Each student will be held responsible for documentation of specific clinical abilities/training through the Patient Encounter Log via OASIS and other required charting in OASIS under graduation requirements.

ATTENDANCE POLICY

The College of Medicine Curriculum Committee strongly supports allowing students one day off service per week.

Senior students may be allowed time off of electives in order to participate in medical meetings or to take USMLE Step 1 CK or CS exams. The elective director must approve each student’s request individually and determine what make-up, if any, is required.

RELEASE TIME – HOUSE OFFICER INTERVIEWING

Senior medical students may request up to five (5) weekdays and two (2) weekend days off from each of four (4) electives for the purpose of interviewing for a post-graduate position. Absence requests should be made to the elective director at least two weeks prior to the start of the rotation/elective. This elective director must approve each student’s request individually and determine what make-up, if any is required.

It is the student’s responsibility to ask the clinical departments about planned absences.
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, 2019 with decisions BEGINNING May 1, 2019. Beginning with the 2019-2020 catalog, UNMC offers rotations each month of the academic year July - June.

Applicants will be expected to adhere to the date schedule as prescribe 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
<table>
<thead>
<tr>
<th>Specialty</th>
<th>Required Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Medicine:</td>
<td>Step 1 or COMLEX&lt;br&gt;Brief statement of interest in area</td>
</tr>
<tr>
<td>Internal Medicine:</td>
<td>Step 1 or COMLEX&lt;br&gt;Brief statement about why UNMC&lt;br&gt;Step 2 score (if available)</td>
</tr>
<tr>
<td>Neurosurgery:</td>
<td>Step 1 score&lt;br&gt;Step 2 score (if available)</td>
</tr>
<tr>
<td>Obstetrics and Gynecology:</td>
<td>Step 1 score&lt;br&gt;Brief statement about why UNMC</td>
</tr>
<tr>
<td>Ophthalmology:</td>
<td>Brief statement about why UNMC</td>
</tr>
<tr>
<td>Orthopaedic Surgery:</td>
<td>Step 1 score</td>
</tr>
<tr>
<td>Otolaryngology:</td>
<td>Step 1 score&lt;br&gt;Brief statement about why UNMC</td>
</tr>
<tr>
<td>Path. &amp; Microbiology:</td>
<td>Course 799 requires a preference sheet DO NOT CONTACT DEPT&lt;br&gt;OR FACULTY (see course description for details)</td>
</tr>
<tr>
<td>Radiation Therapy:</td>
<td>List of previous electives taken in this area</td>
</tr>
<tr>
<td>Surgery:</td>
<td>Step 1 score&lt;br&gt;Step 2 score (if available)</td>
</tr>
</tbody>
</table>

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](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.
ANESTHESIOLOGY

Chair – Steven Lisco, M.D.
Student Clerkship Coordinator – Charles Walcutt, M.D.
Curriculum Clerk – Melinda Murdock
2015 Bennett Hall
402-559-4175

ANES-720 Anesthesia Clerkship
Periods Offered: Each four weeks except July
Student Limit: 8 – 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: Anesthesiology Coordinator (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.

Activity                Hours/Week
Rounds                  5
Didactic conferences    3
Independent learning    10
Research project        3
Independent patient care 0
OR case supervision     40

ANES-725 Critical Care Anesthesiology
Dr. Arnzen
Periods Offered: Each four weeks: August – April
Student Limit: 2
Contact Person: Anesthesiology Coordinator (402-559-4175)

Prerequisite: ANES 720

Course Objectives Critical Care Anesthesiology provides an opportunity to collaborate with a multidisciplinary team led by Anesthesiology-Intensivists to provide cutting edge, patient centered medical therapy to complex, critically ill patients. Learn to navigate the intricacies of multi-organ system dysfunction, sepsis, post-operative cardiac, thoracic and surgical oncology patients, as well as mechanical cardiopulmonary support. Engage in discussions of medical ethics, end of life issues, as well as analyze interpersonal and family dynamics in a high acuity environment. This four week rotation is ideal for those medical students interested in anesthesiology, critical care medicine, internal medicine, cardiology, or surgery, or for students seeking a high-intensity educational exposure to the physiology and pathophysiology of the cardiovascular, respiratory, renal and other major organ systems. The rotation will focus its curriculum on critical care topics with related reading scheduled lectures and bedside instruction of procedures such as central line catheter placement, arterial line insertion, intubation, echocardiography and head-to-toe critical care ultrasonography. Multidisciplinary academic rounds will take place daily, with scheduled lectures occurring three days per week on predesignated topics delivered during lunch by Critical Care Anesthesiology faculty.
ANES-734  Pain Management  
Dr. Michael Lankhorst  
Periods Offered: Each four weeks  
Student Limit:  1  
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: Anesthesiology Coordinator (402-559-4175)  
This course is NOT available to visiting students.  
During this one month rotation the student will spend the majority of their time seeing patients at one of our clinic locations. These locations include Village Point, the UNMC main campus or Bellevue Medical Center. The student will become familiar with the treatment of chronic non-malignant pain and cancer pain. The student may participate in consultation within the hospital as well as the various interventional procedures that are done in the OR to treat pain. They will also spend time with the staff of our behavioral pain program.  

<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>0</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Case supervision</td>
<td>25-50</td>
</tr>
<tr>
<td>Patient evaluations</td>
<td>50-100</td>
</tr>
</tbody>
</table>

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  
Periods offered: February & April  
Student Limit:  2  
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 fair alone is expensive. Please contact the department for further information regarding this rotation.
ANES-798  Anesthesiology Research
Periods offered: Each four weeks
Student Limit: By Arrangement
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: Each four weeks except July
Student Limit: By Arrangement
Prerequisite: Must be arranged with Anesthesiology Coordinator
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.

M-ID-763  Senior Selective Individualized Program
Periods Offered: August through April (for 4 weeks)
Student Limit: By Arrangement
Prerequisite: Must be arranged with Anesthesiology Coordinator and Dr. Richard MacDonald
Contact Person: Anesthesiology Coordinator (402-559-4175)

This course is NOT available to visiting students.

Senior Selective Research 763 is an approved elective for all seniors in many departments on campus. Permission must be granted by Dr. Richard MacDonald after your proposal is approved by your selected department.

The Senior Selective Research month in Anesthesiology has certain requirements you must fulfill before you can proceed with research in the department. Therefore, your first point of contact for this selective is the clerkship coordinator, Melinda Murdock. She will explain the steps necessary to so a Senior Selective Research month in Anesthesiology. Once you have spoken with her, you will be directed to contact physicians in the department to inquire about working with them on a research project. 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.). Your training is required before you can help with any research. Failure to fulfill these requirements will result in a mandatory drop of the course in Anesthesiology.
DERMATOLOGY
Chair: Ashley Wysong, M.D.
M4 Student Director: Megan Arthur, M.D.
Education Programs Coordinator: Jenna Corsey
LOC 4.14.059, 402-559-6128, jenna.corsey@unmc.edu

DERM-714 Advanced Clinical Dermatology
Periods Offered: Each four weeks
Student Limit: 1
Faculty Contact: Dr. Arthur
Contact Person: Jenna Corsey, 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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>4</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>1</td>
</tr>
<tr>
<td>Independent learning</td>
<td>2</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>35</td>
</tr>
</tbody>
</table>

DERM-764 Off-Campus Dermatology Clerkship
Periods Offered: Each four weeks
Student Limit: By arrangement (Approval from Dr. Megan Arthur)
Contact Person: Jenna Corsey, 402-559-6128

This course is NOT available to visiting students

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, required reading (textbooks provided at no cost) 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-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:

1. Provide a stimulating experience in a model of family medicine, which will infuse the student with a philosophy of family medicine and an understanding of the role of the family physician.
2. Help the student acquire excellent skills in diagnosis, treatment and management of patients and technical procedures appropriate for family medicine.
3. Help the student acquire the knowledge and appropriate depth in various fields of medicine encompassed by family medicine.
4. Provide opportunity for the student to develop mature clinical judgment and appreciation of the limitation of his or her competence.
5. Provide understanding of research and methodology in problems relating to the delivery of health services.
6. Encourage students to develop life-long habits of learning and an understanding of the role of continuing education in maintaining professional excellence.
7. Encourage students to examine the viability of 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.

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

Dr. Douglas Wheatley and Staff

**Periods Offered:** Every month except July

**Student Limit:** 1

**Where to Report:** Family Health Center – Contact Vanessa Wilcox at vanessa.wilcox@unmc.edu or 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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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>0 – 5, Family Medicine Teaching day on 2\textsuperscript{nd} and 4\textsuperscript{th} Wed. mornings</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
</tr>
</tbody>
</table>
FMED-722  Family Medicine Outpatient Dub-Internship – Bellevue Medical Center
Staff
Periods Offered:  Every month except June, July and August
Student Limit:  1
Where to Report:  Bellevue Medical Center – Contact Vanessa Wilcox at
vanessa.wilcox@unmc.edu or 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.

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

FMED-723  Family Medicine Outpatient Dub-Internship – Oakview Clinic
Dr. Douglas Inciarte and Staff
Periods Offered:  Every month except June, July and August
Student Limit:  1
Where to Report:  Oakview Medical Center – Contact Vanessa Wilcox at
vanessa.wilcox@unmc.edu or 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. 144\textsuperscript{th} St., Ste 140, Omaha, NE. NOTE – Addition of inpatient, OB, geriatric, or procedural experience could be arranged on an individual basis.

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

FMED-727  Family Medicine Inpatient Service Sub-internship (UNMC)
Chief Resident and Staff
Periods Offered:  Every month except August
Student Limit:  1 – 2
Where to Report:  Chief Resident – Room 2106 MSB - Contact Vanessa Wilcox at
vanessa.wilcox@unmc.edu or 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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<thead>
<tr>
<th>Activity</th>
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<td>Independent learning</td>
<td>5</td>
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<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
<td>20 – 42</td>
</tr>
</tbody>
</table>
FMED-730 Family Medicine Sub-Internship-Lincoln Family Medicine Program
PRE-ARRANGED through Vanessa Wilcox 402-559-7064
Periods Offered: Every month except July and August
Student Limit: 2
Where to Report: Lincoln Family Medicine Program

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. Contact Vanessa Wilcox at vanessa.wilcox@unmc.edu or 402-559-7064 to start the application process. For housing information only, contact Susan Vrbka at the Lincoln Family Medicine Program (402-327-6911).

<table>
<thead>
<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>Independent learning</td>
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<td>Research project</td>
<td>2</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 or vanessa.wilcox@unmc.edu) need to know that you have pre-arranged this elective.

This course is NOT available to visiting students.

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>While on IP Rotation</td>
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<tr>
<td>Didactic conferences</td>
<td>3 hours on Wednesday afternoons</td>
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<tr>
<td>Independent learning</td>
<td>Optional</td>
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<tr>
<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 or 402-559-7064
Questions regarding the elective – Contact Dr. Jeff Harrison at 402-559-8252
Dr. Jeff Harrison
Periods Offered: Each four weeks
Student Limit: 1
This course is NOT available to visiting students.
This is a four-week campus clinical experience, both inpatient and outpatient, in Family Medicine at one of the existing Family Medicine rural training track Family Medicine residency sites. The purpose of this course is to allow senior medical students who are interested in the rural training track residency program to perform a clinical rotation at one of these sites.

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

FMED-735 Family Medicine Outpatient Sub-internship : OneWorld Community Health Center
Pre-arranged through vanessa wilcox 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. Alex Dworak
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 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 One World.

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 examine patients 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 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 final case report.

Activity | Hours/Week
--- | ---
Rounds | 0
Didactic conferences | 2
Independent learning | 4
Research project | 10
Patient care | 30
FMED-737  Domestic Violence
PRE-ARRANGED THROUGH Vanessa Wilcox (402-559-7064 or vanessa.wilcox@unmc.edu)
Periods Offered:  Typically offered in Sept, Oct, Jan, and Feb
Staff:  Dr. Cynthia Hernandez – Assistant Professor, Department of Emergency Medicine
Greater Omaha
Student Limit:  2 per month

This course is NOT available to visiting students.

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

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

FMED-739  SHARING
PRE-ARRANGED THROUGH Vanessa Wilcox (402-559-7064 or vanessa.wilcox@unmc.edu)
Staff:  Dr. William Hay
Periods Offered: Each four weeks by arrangement
Student Limit:  4 per year

This course is NOT available to visiting students.

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

Methods of Instruction – 1 to 1 clinical precepting and mentoring CQI project
Faculty facilitated clinic administration
Independent research and study of CQI project

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

Responsibilities to the SHARING Clinic throughout the M4 year DO NOT take precedence over the
elective for which the student is registered in each of the other months.  Students are responsible for
arranging their SHARING visits each month after they have received the schedule for their elective
that month.
FMED-750 International Health Elective
Periods Offered: Each four weeks
Student Limit: By Arrangement
You must pre-arrange this elective with:
Sara Pirtle, International Health and Medical Education (402-559-2924)
Vanessa Wilcox (402-559-7064 or vanessa.wilcox@unmc.edu)
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 or vanessa.wilcox@unmc.edu)

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 or vanessa.wilcox@unmc.edu)

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.

The student may select a project in which he is 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.).
INTERNAL MEDICINE
Chair: Debra Romberger, M.D.
M3 Student Clerkship Director: Nathan Andersen, M.D
M4 Student Director: Rae Witt, M.D.
Jill McIntosh-Carnes, Education Programs Coordinator
MSB 5517, 402-559-6422, jill.mcintoshcarnes@ummc.edu

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: Karen Brungardt for Attending Schedule, 402-559-3777.

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 supervisory 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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<thead>
<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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<tr>
<td>Independent learning</td>
<td>Blackboard CCM course, approx.3 hrs. /week</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>

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 – April)
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
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-722 Advanced Internal Medicine “Meyers’ Course”  
Drs. David O’Dell and J. Scott Neumeister  
Periods Offered: April, May, July, August, October, November ONLY  
Student Limit: 6 minimum - 18 maximum/month  
Where to Report: 5412C UH 8:00 a.m.  
Contact Person: Jill McIntosh-Carnes, 402-559-6422  

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>
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<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.)  
Drs. Desouza, Armas, Mack, Goldner, A. Neumeister, Shivashwamy, 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 2023 SSP)  

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.  

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>6 to 20</td>
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<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>
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</tbody>
</table>
IMED-724  Gastroenterology
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.

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
UNMC – Drs. Rupp, Hewlett, Ashraf, Bares, Cawcutt, Marcelin, Van Schooneveld (Adult ID)
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: UNMC – Call 402-559-8650 for information
Elective Contact: 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 City-wide infectious Disease Care Conference where unusual or interesting ID cases are discussed. Time in the General ID and HIV/AIDS clinic is also a component.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>6</td>
</tr>
<tr>
<td>Research project</td>
<td>Negotiable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>10</td>
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</tbody>
</table>

IMED-727 Renal
Staff: 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: Office Associate, 402-559-9227

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 Medical Center (Clarkson)**
Staff: 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: Tavi Baker at 402-888-1645

This course is NOT available to visiting students.

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

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

**IMED-728 End-of-Life Care: Hands On Experiences**
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>
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<tbody>
<tr>
<td>Rounds (Palliative Care at VA)</td>
<td>6</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>
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</tbody>
</table>

**IMED-730 Medical Oncology/Hematology**

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

**Periods Offered:** Each four weeks

**Student Limit:** 1

**Where to Report:** Contact Michael Sauter at 402-559-3810, Buffett Cancer Center, 4th Floor

**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, pharmacy 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>
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</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
UNMC – Dr. Hershberger and Staff
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: University Tower UT 5216,
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 inpatient 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 Blackboard course on Pulmonary Medicine is available and a number of didactic lectures are scheduled usually at 11:00 a.m. as a topic review; the Powerpoint slides are also available on the Blackboard site. Honors work will require enthusiasm and initiative, as well as student presentations to the Pulmonary Team of at least one clinical topic related to a clinical problem as selected by the student. This pulmonary rotation is appropriate for a motivated student seeking a broad experience in Pulmonary Medicine.

Activity                                Hours/Week
Rounds                                  12
Didactic conferences                    2 - 3
Independent learning                    Blackboard Pulmonary Medicine Course, approx. 3 hrs/week
Research project                        None
Independent patient care                Not expected
Procedures                              4

IMED-734 UNMC Critical Care Medicine
Dr. Hershberger and Critical Care Medicine Staff
Periods Offered: Each four weeks
Student Limit: 6 (2 on each team)
Where to Report: Clarkson Tower, CKT 9th Floor Conference Room, 9:00 a.m.
Contact Person: CCM Fellow on-call, 402-888-7000

Objectives
- Evaluate and assist in management of patients with acute presentations of common medical problems
- Describe ventilator changes required for patients on mechanical ventilation based on ABG interpretation
- Define the various types of shock and describe their management
- Categorize the variety of vasoactive medications and their use in clinical situations

This rotation offers opportunity for management of critically ill patients, working closely with 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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
<td>24</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>12</td>
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<tr>
<td>Independent learning</td>
<td>Blackboard CCM Course, approx.3 hrs/week</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**

**UNMC Chief Resident, OVAH Chief Resident**

**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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>20</td>
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<tr>
<td>Independent learning</td>
<td>20</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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</tbody>
</table>
IMED-736 Allergy and Immunology  
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 Consultative Medicine  
Drs. Chad Vokoun, Micah Beachy, Andrew Vasey, and Jason Shiffermiller  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Call Dr. Vokoun at 402-559-7299, e-mail: cvokoun@unmc.edu

This course is NOT available to visiting students.

Students will attend clinic five half days per week and perform pre-operative assessments on surgical patients. They will also follow post-surgical patients in the hospital. A series of lectures involving consultative medicine and “hospitalist” topics will be covered.

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<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>2</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>22 (clinic and inpatient)</td>
</tr>
</tbody>
</table>

IMED-744 Outpatient Geriatrics  
Dr. Jane Potter and staff  
Periods Offered: Each four weeks  
Student Limit: Varies  
Where to Report: 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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<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 (Readings/Scholarly Project)</td>
<td>2</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:** T.B.A.  
**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 and Alan Erickson, and Micheline Hearth-Holmes, Tina Mahajan, Bryant England, Marcus Snow, Mike Freely, Jennifer Medlin
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  Allison Blatchford, 402-559-7288

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

This course is NOT available to visiting students.

Students will be given an opportunity to work with both inpatients and outpatients with various rheumatic diseases such as rheumatoid arthritis, gout and systemic lupus. Active participation in a weekly rheumatology conference, as well as in monthly citywide rheumatology meetings will be required. Didactic sessions, 3-4 times weekly, covering various topics in rheumatology, will also be required.

<table>
<thead>
<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>8</td>
</tr>
<tr>
<td>Independent learning</td>
<td>12</td>
</tr>
<tr>
<td>Research project</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>7</td>
</tr>
<tr>
<td>Patient care with attending</td>
<td>7</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  
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, arthrocentresis, paracentesis, thoracentesis, and central lines.

IMED-766 General Medicine Subinternship  
Staff at OVAH  
Periods Offered:  Each four weeks  
Student Limit:  3  
Where to report:  Information will be sent out prior to the start of the rotation.  
*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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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>50-60</td>
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<tr>
<td>Didactic conferences</td>
<td>Daily</td>
</tr>
<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 Subinternship  
Staff at UNMC  
Periods Offered:  Each four weeks  
Student Limit:  4  
Where to Report:  Information will be sent out prior to the start of the rotation.  

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>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
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<tr>
<td>Didactic conferences</td>
<td>10</td>
</tr>
<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>

**IMED-798 Internal Medicine Research Elective in Infectious Diseases**

**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>
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<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>0</td>
</tr>
<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project</td>
<td>40</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
</tbody>
</table>

**IMED-799 Research in Medicine**

**Internal Medicine Staff**

**Periods Offered:** Each four weeks

**Student Limit:** By Arrangement

This course is NOT available to visiting students.
Medical Interdepartmental

M-ID-753 Competent Care for LGBT

Periods Offered: March

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

UNMC Faculty - Kitty Dybdall, Dr. Elizabeth Rucks, and Dr. Rajnish Dave

THIS ELECTIVE MUST BE ARRANGED WITH KITTY DYBDALL (OME)

This course is NOT available to visiting students.

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
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. Bertoni, Bhatti, Datta, Diesing, Fayad, Fernandes, Frankel, Gonzalez, Gress, Hellman, Kedar, McLaughlin, Murman, Pedavally, Piccione, Pichler, Rizzo, Seier, 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
University Hospital, 4th Floor, Room 4140
402-559-9605

NSURG-736 Pediatric Neurosurgery
Periods Offered: Each four weeks – Children’s Hospital under the supervision of Dr. Mark Puccioni
Student Limit: 1
Where to Report: Children’s Hospital – Room & Time TBA

This elective is designed for the student planning a career in neurosurgery, pediatrics, neurology (adult or pediatric) or neuropathology. Students with specific areas of interest, such as neonatal intraventricular hemorrhage, brain neoplasia, or neuroembryology, are especially encouraged to apply for this elective.

Although there is more than ample time devoted to neuroradiology and neuropathology conferences, the principle thrust of this elective is to coherently integrate the student into the practice and theory of pediatric neurosurgery. Broad clinical exposure including patient clinics, operative experience, etc. is afforded to the student along with in-depth literature analysis.

NSURG-738 Neurosurgery
Periods Offered: Each four weeks
Student Limit: By arrangement
Where to Report: Kellie Devney, Room 4140 UNH

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 introduces 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, Room 4140 UNH

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

OBY-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.

<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>4</td>
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<tr>
<td>Independent learning</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>Opportunities available upon request.</td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>24</td>
</tr>
</tbody>
</table>

OBY-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.

OBY-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.

<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>Didactic conferences</td>
<td>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</td>
</tr>
<tr>
<td>Research project</td>
<td>4</td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>16</td>
</tr>
<tr>
<td>Surgery</td>
<td>18</td>
</tr>
</tbody>
</table>
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.

<table>
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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>Varies with patient need</td>
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<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</td>
</tr>
<tr>
<td>Outpatient clinic</td>
<td>24</td>
</tr>
<tr>
<td>Surgery</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
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</table>

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.

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>8-10</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4-8</td>
</tr>
<tr>
<td>Outpatient clinic</td>
<td>16</td>
</tr>
<tr>
<td>Research project</td>
<td>Dependent upon student participation</td>
</tr>
</tbody>
</table>
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.

Activity           Hours/Week
Rounds             0
Didactic conferences 5
Independent learning 12-16
Research project    0
Independent patient care 0
Outpatient ultrasound 16-24
Surgery             0

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.
OPHTHALMOLOGY

Chair: Ronald Krueger, M.D.
Medical Student Education Director: Shannon Lynch, M.D.
Program Director: Shane Havens, M.D.
Curriculum Clerk: Lilibeth Goode
Truhlsen Eye Institute – 3902 Leavenworth Street
402-559-5379

OPHT-720  Clinical Ophthalmology
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: Truhlsen Eye Institute, 3902 Leavenworth Street, 8:00 a.m.
For additional information, contact Lilibeth Goode at lgoode@unmc.edu or 402-559-5379.

This elective in Clinical Ophthalmology will include experience in all areas of general ophthalmologic diagnosis and therapy. Within this wide field, the following areas will receive particular emphasis:

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, which will aid the non-ophthalmologist in evaluating disease processes of the eye, adnexa, and visual pathways. Such knowledge will make ophthalmic disorders or ophthalmic manifestations of systemic diseases.

Activity                          Hours/Week
Clinical patient care            30
Rounds                           1
Didactic conferences             4
Independent learning             0
Research project                 0
Independent patient care         5-6
Surgical Observation             4-6

OPHT-725  International Ophthalmology Elective
Faculty Contact: Michael R. Feilmeier, M.D.
Prerequisite: 2 week Ophthalmology rotation (under Surgery Clerkship in M3 year) OR OPHT-720 Clinical Ophthalmology (senior level four week elective)

For additional information, contact Jessica Feilmeier, International Division Development Director at 402-305-2852.

This course is NOT available to visiting students.

The International Ophthalmology Elective is intended to provide fourth year medical students with an interest in International Health and/or Ophthalmology with a one month elective experience in the developing world. Students will spend one month at Tilganga Institute of Ophthalmology in Kathmandu, Nepal working side-by-side with residents and faculty. Students will spend time in
lecture, clinic, surgery, and outreach clinics and surgical campus learning the nuances of eye care delivery in the developing world.

Students will be assessed based upon:
1. An exit interview with the medical director of the international division of ophthalmology.
2. A 2-page essay summary of their elective experience.
3. A student performance assessment to be completed by the Medical Director of the Tilganga Institute of Ophthalmology.

OPHT-740 Ophthalmology/Otolaryngology Elective
Periods Offered: Each four weeks EXCEPT July or August
Student Limit: 2

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.
Gerianne Miller, Curriculum Coordinator
Lauritzen Outpatient Center, 4th floor Rm 4-14-043
Phone: 402-559-2258

ORTH-722 Orthopaedic Surgery
Periods Offered: Each four weeks
Where to Report: Please call or email Geri Miller 402-559-2258 or (gmill@unmc.edu) a week prior to first day to confirm time/location to report
This elective must be pre-arranged with Geri Miller at gmill@unmc.edu. For additional information please contact Geri Miller.
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
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
  o One for each service given by faculty members
• Case based presentation on topic of choice picked by student and presented to faculty and housestaff
  o 10 min. max.
  o 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. Geri Miller must sign off on the off-campus elective application form on behalf of orthopaedic surgery.

ORTH-799    Orthopaedic Surgery Research

This course is NOT available to visiting students.

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

Chair: Dr. Dwight T. Jones
Program Director: Dr. Sam Pate
Assistant Program Director: Dr. Christie Barnes
Educational Program Coordinator: Briana Jacox
University Tower 3102
402-559-7828

The purpose of the elective in Otolaryngology is to acquaint the student with the diagnostic scope and surgical problems relative to 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 management of common ENT problems, as well as recognition of those problems requiring surgical referral.

Your responsibility while on the elective will be primarily to the Chief Resident, but any of the residents may direct you to a specific patient problem and all will be involved in teaching.

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; they provide good information for general patient care. Adequate time for reading is available and it is suggested that you utilize this for directed reading on a specific topic or for general information. The curriculum clerk will provide the text and syllabus.

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. If you are interested in a specific area, tell the resident, and they will assist you in its evaluation. Your primary responsibility is clinical but as surgical cases are assigned, you will be expected to follow through with 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

Periods Offered: Each four weeks
Student Limit: 4– University Hospital
Where to Report: Tumor Board – 7:00 a.m. Conference Room, Buffett –LVL Ground 0-12101

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</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              25
   Examination of specimens
Preparation of required          3
   Presentation
Participation in Interdisciplinary Conferences

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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 complement 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>
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</thead>
<tbody>
<tr>
<td>Biomolecular Immunology, Lymphotropic Viral Oncogenesis and Psychoneuroimmunology</td>
<td>Dr. Johnson</td>
</tr>
<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>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, Greiner, and Bridge</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>Drs. Wisecarver and Radio</td>
</tr>
<tr>
<td>Urologic Pathology</td>
<td>Dr. Lele</td>
</tr>
<tr>
<td>Virology</td>
<td>Dr. Hinrichs</td>
</tr>
</tbody>
</table>
PEDiATRICS

Chair/Dr. John Sparks
Director, Undergraduate Medical Education: Dr. Kari Simonsen, Co-Director: Dr. Nathan Gollehon
Joy L. Higgins, M.S., Clerkship Coordinator, Room 3135 UT, 402-559-9280
Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu

PEdS-710 Pediatric Palliative Care
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. Howard Hsu  
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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds (Clinic)</td>
<td>33</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>2</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
</tbody>
</table>

PEDS-724  Pediatric Emergency Medicine  
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>
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</tbody>
</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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
<td>5</td>
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<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
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</table>

PEDS-727 Human Cytogenetics
Dr. Jennifer Sanmann

Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Human Genetics Office

The goal of this course is to familiarize students with cytogenetic, FISH, microarray, and molecular genetic procedures, nomenclature, and reporting.

<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>1</td>
</tr>
<tr>
<td>Independent learning</td>
<td>19</td>
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</tbody>
</table>
PEDS-728 NICU  
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.

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

PEDS-729 Pediatric Endocrinology  
Dr. Monica Cabrera  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Pediatric Endocrinology Clinic, 8200 Dodge Street

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

Activity | Hours/Week  
--- | ---  
Rounds/Clinic | 40  
Didactic conferences | 2  
Independent learning | 0  
Research project | 0  
Independent patient care | 0
PEDS-730  Pediatric Gastroenterology  
Dr. 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>35</td>
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<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</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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</tbody>
</table>

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.  

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds/Clinics</td>
<td>22</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>6</td>
</tr>
</tbody>
</table>
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 clinic meets 2 half days per week. In these clinics, the student, under the supervision of the staff, evaluates new and follow-up patients with all forms of pediatric lung diseases. Approximately 40% of these patients have cystic fibrosis and are followed for routine care. The remainder includes a significant number of patients with asthma, recurrent pneumonia, chronic cough, tuberculosis, recurrent aspiration pneumonias and many other assorted disorders. The student will learn to perform and interpret basic pulmonary function tests. Inpatient rounds are made daily with the staff on patients hospitalized for cystic fibrosis or other pulmonary disease. Consultations are performed on other services’ patients with pulmonary conditions.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>36</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<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>0</td>
</tr>
</tbody>
</table>

PEDS-733  Allergy/Immunology
Drs. 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.
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  
Dr. Jessica Snowden  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: E-mail Raven VonBehren at rvonbehren@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 present one or more interesting cases at scheduled conferences. 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. The students perform a complete workup and assessment, then present their findings and recommendations to the attending physician on daily rounds. Three laboratory tutorial sessions are taught during the month, each lasting 1 ½ to 2 hours. In addition, rounds are made each day in the microbiology laboratory and 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 at the beginning of the rotation and students are responsible for all the material therein. Regular “Journal Club” sessions are held throughout the month to discuss selected chapters from Infectious Diseases of Children.

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>
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<tr>
<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
<td>10</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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<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
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<td>Research project</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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<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
<td>8</td>
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<td>Research project</td>
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<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 Rounds;
- 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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<th>Activity</th>
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<tr>
<td>Tutorials</td>
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<td>Independent learning</td>
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<td>Paper</td>
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**PEDS-751**  Pediatrics Subinternship  
**PICU:**  Dr. Kelly Kadlec (CMH)  
**Wards:**  Dr. Jason Burrows  
**Wards:**  Dr. Arwa Nasir (UNMC)  
**Periods Offered:**  Each four weeks  
**Student Limit:**  1 per track  
**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 that the student will function as a sub-intern for critically ill pediatric patients at Children’s Hospital. 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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<tr>
<td>Rounds</td>
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<td>Didactic conferences</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-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 Joy Higgins at 402-559-9280.  

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.
PHYSICAL MEDICINE AND REHABILITATION

PMR-710 Clinical Elective in Rehabilitation Medicine
Periods Offered: Each four weeks
Student Limit: 2
Staff: Drs. Bierner, Anderson, and Weaver
Contact Person: Briana Jacox: briana.jacox@unmc.edu 402-559-7828

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: Jenna Benton, M.D.
Clerkship Director: Sharon Hammer, M.D.
Undergraduate Program Coordinator: Sarah Kepple, Poynter Hall, 4th 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. Benton.

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., Jonathan Sikorski, PhD, Steven Wengel, M.D., and Heather Cook-Mikkelsen, APRN, FNP.

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-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: 2 students; per site

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.  
Periods Offered:  Each four weeks, EXCEPT November  
Student Limit:  1  

This elective provides the student greater exposure to the subspecialty of child and adolescent psychiatry. Students will participate with faculty and therapists in outpatient management of young patients. 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  
Drs. M.D., Sharon Hammer, M.D., and Thomas Magnuson, M.D.  
Periods Offered:  Each four weeks, EXCEPT November, December, and January  
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 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-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 this elective 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-724 Nuclear Medicine
Faculty Contact – Craig Johnson, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Contact Tina Hunter, Department of Radiology, 559-1018

This elective is directed towards acquainting the student with the field of Nuclear Medicine. The application of radionuclides to the diagnosis, treatment and/or investigation of human disease is surveyed with emphasis on clinical applications. The students receive didactic instruction in the principles and practice of pertinent nuclear physics and instrumentation. They will participate in case evaluation, procedure selection, radio-pharmaceutical dose calculation and administration, conduct the procedure, subsequent evaluation and analysis of data with patients. Integration of the consultative report into the total patient care is stressed.

Pertinent radiation biologic and radiation protection considerations are related to the conduct of the routine practice of nuclear medicine. Opportunity is available for the pursuit of individual interests within the overall framework of the elective. A specific investigational activity exploring an area of interest in greater depth is also an integral part of the elective, providing a more detailed experience relating to the field of nuclear medicine.
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
(may be extended an additional four weeks by permission)
Student Limit: 1 per section
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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<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Research project</td>
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<td>Independent patient care</td>
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Surgical specialties are clinical rotations which allow students the opportunity to combine all of the knowledge that they have accumulated during the first three years of medical school. A thorough knowledge of anatomy, pathophysiology and clinical decision-making is essential to prepare for and execute operative procedures. In the operating room gross pathology can be observed and histologic pathology later reviewed. This pathology can be correlated with preoperative imaging and physical exam findings. The physiology and pathophysiology of disease and their effect on all body systems is observed pre-operatively, intra-operatively and during the post-operative recovery periods. The spectrum of other areas of medicine that can be seen in surgical patients include infectious disease, endocrinology, cardiology, pulmonology, immunology and pharmacology. Surgical specialties offer exposure to both adult and pediatric patients. All of these electives are geared towards graduated responsibility in patient care as students progress to functioning at the level of an intern.

As you contemplate your career choices, you can feel confident that a surgical elective during your fourth year will contribute to your medical education and your development as a physician, whatever field of medicine you choose to pursue. The Department of Surgery offers elective rotations in a number of areas of surgery. These include General Surgery, Urology, Oral Surgery, Neurosurgery, Pediatric Surgery, Transplant Surgery, Vascular Surgery, Plastic and Reconstructive Surgery, Endocrine/Breast Surgery, Surgical Oncology, Cardiac Surgery and Thoracic Surgery. Other areas of surgical interest can be found through the Departments of Orthopaedic Surgery, Otolaryngology-Head and Neck Surgery, Ophthalmology, Emergency Medicine and Anesthesiology.

If you have a career interest in a surgical subspecialty, we would recommend including some of the following as electives:

- One to two electives on a General Surgery or subspecialty field based at UNMC or one of the affiliated hospitals. In addition, a rotation in other surgical specialties (such as neurosurgery, urology and orthopaedic surgery) may be beneficial.
- Two to three electives in non-operative areas of medicine, especially in those fields that represent patients with diseases that are often treated with surgical and medical approaches.
- One to two electives in fields that represent areas of medicine that partner with surgeons in the care of their patients such as radiology, anesthesiology or pathology.

Members of the faculty of the Department of Surgery would be pleased to give you advice regarding your selection of electives, regardless of your career path – surgical or non-surgical. Please see the list of advisors in the front of this handbook.

ELECTIVES: The electives are designed to build on the foundation achieved in the primary clerkship. The student is an active participant in the professional team caring for patients. Professional communication, relation of the surgical problem to the basis of disease, the details and technique of diagnosis and treatment, are the focus of increasing involvement with patients through the pre-operative and post-operative periods in conjunction with the faculty. The primary clerkship is a prerequisite for all electives in the Department of Surgery.
SURG-710  Plastic Surgery  
Drs. Hollins, Reilly, Miller, Johnson, and Wong  
Periods Offered: Each four weeks  
Student Limit:  2  
Where to Report: Email will be sent out by Alex Shull 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 genitor-urinary tract disease recognition, diagnosis, and therapy and be encouraged to partake fully in the pre-operative, intra-operative and post-operative management of these patients. Students are expected to give a clinical case study presentation during didactic conference during the month rotation. This case will be approved by a faculty advisor prior to presentation. Students will participate in 2-3 hrs of didactics/conferences a week including morbidity and mortality, tumor board, radiology, indications, and other educational conferences.

SURG-721  Surgical Residency Prepatory Course  
Dr. Fingeret  
Periods Offered: April ONLY  
Student Limit: 20  
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation start date.

This course is NOT available to visiting students.

American College of Surgeons/Association of Program Directors in Surgery/Association for Surgical Education (ACS/SPDS/ASE) Resident Prep Curriculum “Boot Camp”

This four-week elective offered at the end of the fourth year is geared towards students who are pursuing a career in general surgery. The goal of the elective is to prepare students for the practical aspects of a surgical internship so that they will be able to thrive in the surgical world. The elective will consist of didactic, practical and simulated scenarios. There will be:
- dedicated time in simulation facilities, cadaver labs and practical skills mastery
- exposure to common clinical problems that students can expect to face when they start as an intern
- time dedicated to development of time management skills, communication skills, handover skills and discussion about balancing professional and personal demands
- sometime will be spent focusing on core pathophysiology topics

Students will be mentored by surgical faculty and residents and education will be provided by nursing, pharmacy and other allied health professionals. We will utilize the American College of Surgeons/Association of Program Directors Surgery/Association for Surgical Education Resident Preparatory Curriculum and will receive a letter of completion of a standardized curriculum.
This course is NOT available to visiting students.

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.

This course is NOT available to visiting students.

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.

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.

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: Alex Shull will send out an email 2 weeks prior to the rotation 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. Beatty

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  
Dr. Carlson, Wheeler, Rivard and de Rosa  
Periods Offered: Each four weeks  
Student Limit: 1 per service  
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation 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 Maskin  
Periods Offered: Each four weeks  
Student Limit: 1 each  
Where to Report: Alex will send out an email 2 weeks prior to the rotation.

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: Alex Shull will send out an email 2 weeks prior to the rotation 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, August - May
Student Limit: 1
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation 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, Garg, and J.R. Thompson
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation 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: Alex Shull will send out an email 2 weeks prior to the rotation 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: Alex Shull will send out an email 2 weeks prior to the rotation 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. PJ Schenarts, Evans, Stothert, Cemaj, Schlitzkus, Buesing, Goede, Kemp, Bauman, and Waibel  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation start date  

This elective is recommended to students interested in a more in-depth exposure to the management of critically ill surgical patients. Students 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. PJ Schenarts, Evans, Stothert, Cemaj, Schlitzkus, Buesing, Goede, Kemp, Bauman, and Waibel  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation 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. PJ Schenarts, Evans, Stothert, Cemaj, Schlitzkus, Buesing, Goede, Kemp, Bauman, and Waibel  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Alex Shull will send out an email 2 weeks prior to the rotation 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: Alex Shull will send out an email 2 weeks prior to the rotation start date  

This elective is recommended to students interested in a career in surgery with a special interest in solid organ transplantation. Student will be expected to function as sub-interns for kidney transplant patients only and will be intimately involved in all phases of the transplantation procedure; both donor and recipient operation, pre and post-operative management and regulation of immunosuppressive drugs. Students will be exposed to patients undergoing kidney and pancreatic transplant. In addition, all general surgical procedures on transplant patients will be a part of the rotation. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation.
SURG-760 Off-Campus Surgery
Periods Offered: Each four weeks
Student Limit: By Arrangement – Please contact Alex Shull 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 Alex Shull 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 Alex Shull 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.
## SAMPLE WORKSHEET

Student Name: ________________  
Career Interest: ____________________  
Advisor’s Name: ____________________

### ALL ELECTIVES ARE PRE-ARRANGED

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