UNIVERSITY OF NEBRASKA
MEDICAL CENTER
COLLEGE OF MEDICINE

SENIOR ELECTIVE HANDBOOK

CLASS OF 2013

2012-2013 ACADEMIC YEAR

FEBRUARY 2012

Office of Admissions and Student Affairs
University of Nebraska Medical Center
College of Medicine

SENIOR ELECTIVE HANDBOOK
2012-2013

Address Inquiries to:

Sue Pope, Program Coordinator
Office of Admissions and Student Affairs
University of Nebraska College of Medicine
Room 4043 Michael Sorrell Center
985527 Nebraska Medical Center
Omaha NE 68198-5527
402-559-4169 or 1-800-626-8431
spope@unmc.edu

* * * * * * * * * * * * * * * * * * * * * * *

Gerald F. Moore, M.D.
Senior Associate Dean for Academic Affairs

Jeffrey W. Hill, M.D.
Associate Dean for Admissions and Student Affairs

Jeffrey D. Harrison, M.D.
Assistant Dean for Admissions

Wendy J. Grant, M.D.
Assistant Dean for Student Affairs

Sue Pope
Program Coordinator, Office of Admissions and Student Affairs
spope@unmc.edu

Gigi Rogers, B.S.
Program Coordinator, Office of Admissions and Student Affairs

Janet Sisneros
Office Associate, Office of Admissions and Student Affairs

Web Address: http://www.unmc.edu/com
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SEMESTERS
First Semester (M1-M2) August 20, 2012 – December 14, 2012
First Semester (M3-M4) July 2, 2012 – December 14, 2012
Second Semester (M4) January 7, 2013 – May 2, 2013

SENIOR ELECTIVE PERIODS
August 2012 July 30, 2012 – August 26, 2012
September 2012 August 27, 2012 - September 23, 2012
October 2012 September 24, 2012 - October 21, 2012
November 2012 October 22, 2012 - November 18, 2012
December 2012 November 19, 2012 - December 14, 2012
April 2013 April 8, 2013 – May 2, 2013
Commencement May 4, 2013 (Saturday)

RECESSES AND HOLIDAYS
Independence Day July 4, 2012 (Wednesday)
Labor Day September 3, 2012 (Monday)
Thanksgiving (M3-M4) November 22, 2012 (Thursday)
Thanksgiving (M1-M2) November 22, 2012 – November 23, 2012
New Year’s Day (Holiday) January 1, 2013 (Tuesday)
Martin Luther King, Jr. January 21, 2013 (Monday)
Spring Recess (M3-M4) April 1, 2013 – April 7, 2013
Memorial Day May 27, 2013 (Monday)
Summer Recess (M3) July 1, 2013 – July 7, 2013

SPECIAL EVENTS
First Year Orientation August 13, 2012 – August 17, 2012
White Coat Ceremony (M1) August 17, 2012 (Friday)
FIRST DAY OF CLASS (M1-M2) August 20, 2012
Honors Convocation (M1-M2) May 3, 2013 (Friday)
Commencement (M4) May 4, 2013 (Saturday)
CORE EXAMS (M1-M2) T.B.A. (Announced by ESO Office)
<table>
<thead>
<tr>
<th>PERIOD NUMBER</th>
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<td>INDEPENDENCE DAY *</td>
<td>July 4, 2012 (Wednesday)</td>
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<td>PERIOD 01</td>
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</tr>
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<td>PERIOD 02</td>
<td>July 16, 2012 – July 29, 2012</td>
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<td>PERIOD 03</td>
<td>July 30, 2012 – August 12, 2012</td>
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<td>PERIOD 04</td>
<td>August 13, 2012 – August 26, 2012</td>
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<tr>
<td>LABOR DAY</td>
<td>September 3, 2012 (Monday)</td>
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<td>PERIOD 05</td>
<td>August 27, 2012 – September 9, 2012</td>
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<td>PERIOD 06</td>
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<td>November 5, 2012 – November 18, 2012</td>
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<tr>
<td>PERIOD 11</td>
<td>November 19, 2012 – December 2, 2012</td>
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<td>THANKSGIVING</td>
<td>November 22, 2012 (Thursday)</td>
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<td>PERIOD 12</td>
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</tr>
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<td>March 4, 2013 – March 17, 2013</td>
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<td>PERIOD 18</td>
<td>March 18, 2013 – March 31, 2013</td>
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<tr>
<td>SPRING RECESS</td>
<td>April 1, 2013 – April 7, 2013</td>
</tr>
<tr>
<td>PERIOD 19</td>
<td>April 8, 2013 – April 21, 2013</td>
</tr>
<tr>
<td>PERIOD 20</td>
<td>April 22, 2013 – May 5, 2013</td>
</tr>
<tr>
<td>PERIOD 21</td>
<td>May 6, 2013 – May 19, 2013</td>
</tr>
<tr>
<td>PERIOD 22</td>
<td>May 20, 2013 – June 2, 2013</td>
</tr>
<tr>
<td>MEMORIAL DAY</td>
<td>May 27, 2013 (Monday)</td>
</tr>
<tr>
<td>SUMMER RECESS (M3)</td>
<td>July 1, 2013 – July 7, 2013</td>
</tr>
</tbody>
</table>

Office of Admissions & Student Affairs (10/19/11)
Scheduling Instructions

Requirements for Graduation (Class of 2013) include the following:

Basic Required Clerkships:

- Family Medicine Community Preceptorship: 8 weeks
- Internal Medicine Clerkship: 12 weeks
- Obstetrics and Gynecology Clerkship: 6 weeks
- Pediatrics Clerkship: 8 weeks
- Psychiatry Clerkship: 6 weeks
- Surgery Clerkship: 8 weeks

SENIOR YEAR IS 10 MONTHS LONG (July-April)
7 or 8 months of electives during the senior year
- Senior Selective (M4 year): 4 weeks
- ICE Senior Seminars (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.

If you are planning a vacation, an off-campus elective, or wish to leave a month open temporarily (To be Arranged), please indicate so by entering the following for that month on your worksheet:

- Vacation: VACATION
- To Be Arranged/Open: T.B.A.

Please do not enter the appropriate off-campus number on your worksheet until arrangements are confirmed.

Electives may be taken off-campus (out of Nebraska) with prior departmental approval. The most current information about off-campus electives can be usually be obtained from the visiting school's website. (Please see off-campus elective procedures).

ALL hospital assignments for electives are done by the department involved – not the Office of Admissions and Student Affairs.

You MUST have your advisor’s signature on your worksheet.
Scheduling Timetable

If you have any questions, please call Sue Pope at 402-559-4169 or stop by Room 4043 (MSC) Michael Sorrell Center during the hours designated below:

Monday through Friday: 9:00 a.m. – 10:30 a.m. and 2:00 p.m. – 3:30 p.m.

February 2012:
The 2012-2013 Senior Elective Handbook and 2012-2013 Senior Selective Handbook will be available. Schedule an appointment to meet with your Clinical Curriculum Advisor. You may then complete your scheduling worksheet. Copies of the worksheet are available from Sue Pope.

In February you will have an opportunity to request a month (February 2013 or April 2013) for your ICE Senior Seminar. If all requests cannot be accommodated, then a lottery will be used to allocate students to a given month. If you do not submit a request, you will be assigned to either February 2013 or April 2013 for ICE. You will be notified of your ICE month in early March 2012 so you can finish your senior year planning. (Please refer to the course description for M-ID-710 for details about the course.)

March 2012:
Deadline for returning worksheet to Sue Pope:
Friday, March 23, 2012
Room 4043 Michael F. Sorrell Center (Zip 5527)
Include your ICE Senior Seminar (M-ID-710) as assigned in the appropriate month on your worksheet (either February 2013 or April 2013). Requests to change your ICE month can only be accommodated on a “space available” basis and must be arranged with Ron Bechdolt (rbechdolt@unmc.edu) prior to submitting your worksheet.

May 2012:
You will receive a tentative schedule in your student mailbox. Individual conferences will be held to finalize schedules, if necessary.
You will also have the opportunity to rank your preferences for the four (4) optional ICE Senior Seminar topics (M-ID-710). Your rankings will be used to arrange the seminar offerings for that month and to register you for your optional seminars.

June 2012:
Registration will take place. Your schedule then becomes a computerized record in the Office of Academic Records. After this occurs, any change to your schedule will require a drop/add. (Please see detailed drop/add procedures).
Advisor System

The Office of Admissions and Student Affairs, in conjunction with the Scholastic Evaluation Committee, has formulated an advising system as described below:

The philosophy of the advising system:

As adults in a professional school, medical students bear the primary responsibility for their success or failure. The College of Medicine recognizes, however, that students may need the assistance provided by an advising system. There are several goals of the advising system:

To provide students with a faculty member who is familiar with the students’ abilities, which can serve as a confidant and advocate for the student.
To better inform the student of opportunities that may enhance their medical school education.
To assist the student in understanding the guidelines for promotion set by the College of Medicine.
To inform the student of campus support services that might aid them in times of their academic or personal difficulty.
To assist the student in the design of senior electives that support their residency choice.

By January of the third year, students should be thinking about selecting a clinical curriculum advisor from the clinical faculty. This could be the same advisor who served in years one and two, if this individual was a clinician. It is anticipated that the advisor selected at the mid portion of the junior year would, for many students, represent an individual in the field of the students’ residency training interest. The student would meet with an advisor to plan the M4 year. Students have the liberty of changing advisors according to their career interests. The advisor will discuss and approve senior elective choices and help with career planning.

With approval of the advisor, appropriate substitutions in the elective list can be made.

Sue Pope will not accept schedules without an advisor’s signature.

Residency Career Advisor:
These are 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 application in that field. Students are permitted to change advisors should their area of interest change or should they find that the original advisor is not meeting their needs.

A list of advisors follows this section.
CLINICAL CURRICULUM ADVISORS

ANESTHESIOLOGY
Jennifer Adams, M.D.
Ali Braasch, M.D.
Tara Brakke, M.D.
Kristina Birch, M.D.
Jennifer Bunde, M.D.
Beth Burton, M.D.
James W. Chapin, M.D.
Joy Crossman, M.D.
Amy Duhachek-Stapelman, M.D.
Sheila Ellis, M.D.
Michael P. Fee, M.D.
Shawna Freeman-Ngau, M.D.
Scott Hofmann, M.D.
Terry Huang, M.D.
Barbara J. Hurlbert, M.D.
Joe Kalamaja, M.D.
Sean Karre, M.D.
Maria Michaelis, M.D.
Candice Montzingo, M.D.
John Ohnoutka, M.D.
Huiling Pang, M.D., Ph.D.
K. Reed Peters, M.D.
Ellen Roberts, M.D.
Nancy Rogic, M.D.
Tom Schulte, M.D.
Sasha Shillcutt, M.D.
Jean Simonson, M.D.
Jim Sullivan, M.D.
Katie Van Denmark, M.D.
Corey Zetterman, M.D.

EMERGENCY MEDICINE
Claudia Barthold, M.D.
Kristine Bott, M.D.
Chad Branecki, M.D.
Lance Hoffman, M.D.
Robert Muelleman, M.D.
T. Paul Tran, M.D.
Michael Wadman, M.D.
Richard Walker, M.D.
Wes Zeger, D.O.

FAMILY MEDICINE
Ivan Abdouch, M.D.
Lisa Backer, M.D.
Kaye Carstens, M.D.
Dennis P. Goeschel, M.D.
Jeff Harrison, M.D.
Jeffrey Hill, M.D.
Timothy Malloy, M.D.
Monty Mathews, M.D.
Jim Medder, M.D.
Paul Paulman, M.D.  
Michael Sitorius, M.D.  
John Smith, M.D.  
Douglas Wheatley, M.D.  

**INTERNAL MEDICINE**  
Philip Bierman, M.D.  
James Campbell, M.D.  
Amy Cannella, M.D.  
Gay Canaris, M.D.  
Julie Fedderson, M.D.  
Anne Kessinger, M.D.  
Lynell Klassen, M.D.  
Merle McAlevy, 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.  
Craig Piquette, M.D.  
Troy Plumb, M.D.  
Jane Potter, M.D.  
Elizabeth Reed, M.D.  
Debra Romberger, M.D.  
Daniel Schafer, M.D.  
Rob Schwab, M.D.  
Jason Shiffermiller, M.D.  
Joseph Sisson, M.D.  
Thomas Tape, M.D.  
Austin Thompson, M.D.  
Chad Vokoun, M.D.  
Julie Vose, M.D.  
John Windle, M.D.  
Renee Young, M.D.  
Rowen Zetterman, M.D.  

**MEDICINE-PEDIATRICS**  
Jennifer Parker, M.D.  
Rebecca Runge, M.D.  
John Sparks, M.D.  
Sharon Stoolman, M.D.  

**NEUROLOGY**  
John M. Bertoni, M.D.  
Pierre Fayad, M.D.  
J. Americo Fernandes, M.D.  
Harris A. Frankel, M.D.  
Mac T. McLaughlin, M.D.  
Daniel Murman, M.D.  
Najib I. Murr, M.D.  
Pariwat Thaisetthawatkul, M.D.  
Diego Torres-Russotto, M.D.  
Rana K. Zabad, M.D.  


NEUROSURGERY (DIVISION OF) – SURGERY
Michele Aizenberg, M.D.
Bradley Bowdino, M.D.
Stephen Doran, M.D.
Kenneth Follett, M.D.
Les Hellbusch, M.D.
Peter Lennarson, M.D.
Keith Lodhia, M.D.
Douglas Long, M.D.
Guy Music, M.D.
Angelo Patil, M.D.
Mark Puccioni, M.D.
Wendy Spangler, M.D.
Daniel Surdell, M.D.
William Thorell, M.D.
John Treves, M.D.

OBSTETRICS AND GYNECOLOGY
N. Jean Amoura, M.D.
Teresa G. Berg, M.D.
Karen Carlson, M.D.
Katherine Finney, M.D.
Jennifer Griffin, M.D., M.P.H.
Sonja R. Kinney, M.D.
Robert C. Olesh, M.D.
Steven W. Remmenga, M.D.
Kerry Rodabaugh, M.D.
Carl V. Smith, M.D.
Marvin L. Stancil, M.D.
Paul G. Tomich, M.D.
Serena Wu, M.D.
Sylvia Ziegenbein, M.D.

OPHTHALMOLOGY
James Gigantelli, M.D.
Michael Griess, M.D.
Vikas Gulati, M.D.
John Halgren, M.D.
Thomas W. Hejkal, M.D., Ph.D.
Shannon Lynch, M.D.
Eyal Margalit, M.D., Ph.D.
Millicent Palmer, M.D.
Sushma Rai, M.D.

ORAL SURGERY (SECTION OF) – SURGERY
Leon Davis, D.D.S., M.D.

ORTHOPAEDIC SURGERY AND REHABILITATION
Chris Cornett, M.D.
Miguel Daccarett, M.D.
Mark Dietrich, M.D.
Paul W. Esposito, M.D.
Edward V. Fehringer, M.D.
Kevin L. Garvin, M.D.
OTOLARYNGOLOGY – HEAD AND NECK SURGERY
Barbara M. Heywood, M.D.
Daniel D. Lydiatt, D.D.S., M.D.
William M. Lydiatt, M.D.
Gary F. Moore, M.D.
Anthony J. Yonkers, M.D.

PATHOLOGY AND MICROBIOLOGY
Patricia Aoun, M.D.
Dominick DiMaio, M.D.
James Landmark, M.D.
Subodh Lele, M.D.
William West, M.D.
James Wisecarver, M.D., Ph.D.

PEDIATRICS
Jill Beck, M.D.
Ann Anderson-Berry, M.D.
Bruce Buehler, 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.
Paul Larsen, M.D.
Stefanie Lowas, M.D.
Sheryl Pitner, M.D.
John Sparks, M.D.
Sharon Stoolman, M.D.
John Walburn, M.D.

PEDIATRIC SURGERY (SECTION OF) – SURGERY
Shahab Abdessalam, M.D.
Kenneth Azarow, M.D.
Robert Cusick, M.D.
Stephen Raynor, M.D.

PSYCHIATRY
Lindsey Corr, M.D.
Matthew Egbert, M.D.
Howard Liu, M.D.
Thomas Magnuson, M.D.
William Roccaforte, M.D.
Ashish Sharma, 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.
Jason Helvey, M.D.
Melissa Manzer, M.D.
Craig W. Walker, M.D.

SURGERY
Chandra Are, M.D.
Kenneth Azarow, M.D.
Timothy Baxter, M.D.
Jean Botha, M.D.
Mark Carlson, M.D.
Kim Duncan, M.D.
James Edney, M.D.
Jason Foster, M.D.
Matthew Goede, M.D.
Wendy Grant, M.D.
James Hammel, M.D.
Randeep Jawla, M.D.
Jason Johanning, M.D.
Vishal Kothari, M.D.
Rudy Lackner, M.D.
Alan Langnas, D.O.
Quan Ly, M.D.
Thomas Lynch, M.D.
Matthew Longo, M.D.
Jason MacTaggart, M.D.
Alexander Maskin, M.D.
Corrigan McBride, M.D.
David F. Mercer, M.D.
David W. Mercer, M.D.
Michael Morris, M.D.
Lawrence Nelson, M.D.
Irklis Pipinos, M.D.
Aaron Sasson, M.D.
Byers Shaw, M.D.
Edibaldo Silva-Lopez, M.D.
Joseph Stothert, M.D.
Jon Thompson, M.D.
Karin Trujillo, M.D.
John Um, M.D.
Michael Wagner, M.D.
UROLOGY (SECTION OF) – SURGERY
Michael Feloney, M.D.
Herman Greenwald, M.D.
George P. Hemstreet, III, M.D., Ph.D.
Chad LaGrange, M.D.
Larry Siref, M.D.

RESIDENCY CAREER ADVISORS

ANESTHESIOLOGY
James Chapin, M.D.
Sheila Ellis, M.D.
Barbara J. Hurlbert, M.D.
Jean Simonson, M.D.

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Paul Paulman, M.D.
Michael Sitorius, M.D.
Douglas Wheatley, M.D.

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Rachel Bonnema, M.D.
Julie Fedderson, M.D.
William Lyons, M.D.
J. Scott Neumeister, M.D.
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James R. O’Dell, M.D.
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Rana Zabad, M.D.

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Eyal Margalit, M.D.
Sushma Rai, M.D.

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Kevin L. Garvin, M.D.
Hani Haider, Ph.D.
Curtis Hartman, M.D.
Brian Hasley, M.D.
Layne Jenson, M.D.
Beau Konigsberg, M.D.
Sean McGarry, M.D.
Matthew A. Mormino, M.D.
Fereydoon Namavar, Sc.D.
Lori K. Reed, M.D.
Susan A. Scherl, M.D.

**OTOLARYNGOLOGY – HEAD AND NECK SURGERY**
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William M. Lydiatt, M.D.
Gary F. Moore, M.D.
Anthony J. Yonkers, M.D.

**PATHOLOGY**
Samuel M. Cohen, M.D.
Subodh Lele, M.D.
Geoffrey Talmon, M.D.
William West, M.D.

**PEDIATRICS**
Bruce Buehler, M.D.
Don Coulter, M.D.
Patrick Doherty, M.D.
Paul Larsen, M.D.
Lisa Seicezkowski, M.D.
John Sparks, M.D.
Sharon Stoolman, M.D.
John Walburn, M.D.

**PSYCHIATRY**
Matthew Egbert, M.D.
Carl Greiner, M.D.
Howard Liu, M.D.
Thomas Magnuson, M.D.
William Roccaforte, M.D.
Ashish Sharma, M.D.
Steven Wengel, M.D.

**RADIATION ONCOLOGY**
Charles A. Enke, M.D.
Andrew Wahl, M.D.
Weining Zhen, M.D.

**RADIOLOGY**
Matthew DeVries, M.D.
Jason Helvey, M.D.
Melissa Manzer, M.D.
Craig W. Walker, M.D.

**SURGERY**
Chandra Are, M.D.
Timothy Baxter, M.D.
Jean Botha, M.D.
Mark Carlson, M.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. Each department has provided a list of electives from which the student might choose. 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 your “primary” area of interest, or if your area is not represented, an advisor from any one of these areas may be chosen and the “generic” elective list should be used. Modification in the elective list should be made ONLY with the advice and signature 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.
4. Complete scheduling working and obtain advisor’s signature. The scheduling worksheet will not be accepted without an advisor’s signature.

ELECTIVE LISTS

ANESTHESIOLOGY
Anesthesiology
Newborn Medicine
Adult Cardiology
Pediatric Cardiology
General Medicine
Diabetes, Endocrine and Metabolism
Emergency Medicine
Otolaryngology
Anatomic Pathology
Adult Intensive Care
Radiology
Surgery (any elective)

EMERGENCY MEDICINE
Anesthesiology
Adult Cardiology
Adult ICU
Emergency Medicine
Ophthalmology
Orthopaedic Surgery
Pediatric ICU
Radiology
Trauma Surgery
FAMILY MEDICINE – RURAL PRACTICE
Advanced Obstetrics
Newborn Medicine
Adult ICU
Family Medicine Inpatient Rotation
Ambulatory Surgical electives
Internal Medicine electives
Ambulatory Psychiatry
Otolaryngology

FAMILY MEDICINE – URBAN PRACTICE
Family Medicine Ambulatory Rotation
Ambulatory Psychiatry
Ambulatory Gynecology
Domestic Violence
Otolaryngology
Ophthalmology
Family Medicine Inpatient Rotation
Ambulatory Surgery electives
Ambulatory Internal Medicine electives
Ambulatory Pediatric electives

INTERNAL MEDICINE
(Internal Medicine electives should be limited to 3-4).
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

NEUROSURGERY
Anesthesiology
MICU/Critical Care
Diabetes, Endocrine and Metabolism
Neurology
Pediatric Neurology
Neurosurgery
Ophthalmology
Orthopaedics
Otolaryngology
Pain Management
Preceptorial Neurosurgery
Neurosurgery Research
OBSTETRICS AND GYNECOLOGY
(Any OB-GYN elective)
Anesthesiology
Diabetes, Endocrine and Metabolism
Genetics and Metabolic Disease
Hematology/Oncology
Newborn Medicine
Adult Intensive Care
Nephrology
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
General Medicine
Diabetes, Endocrine and Metabolism
Neurology
Orthopaedics
Clinical Pathology
Pediatrics (any elective)
Radiology
Surgery (any elective)

OTOLARYNGOLOGY – HEAD AND NECK SURGERY
Anesthesiology
Critical Care
Diabetes, Endocrine and Metabolism
Adult Gastroenterology
General Surgery
Hematology/Oncology
Adult Pulmonary
Neurosurgery
Ophthalmology
Plastic Surgery
Radiation Therapy
Cardio-Thoracic Surgery
Pediatrics (any elective)
PATHOLOGY
General Medicine
Infectious Disease
Hematology/Oncology
Neurology
Obstetrics & Gynecology (any elective)
Pathology (any elective)
Internal Medicine electives
Pediatrics (any elective)
Radiology
Surgery (any elective)

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
Pain Management
Family Medicine or Internal Medicine
Pediatric Neurology or Developmental Pediatric Practicum
Emergency Medicine
Adult Ambulatory Neurology

RADIOLOGY
Emergency Room
Inpatient General Medicine
General Medicine
Adult Gastroenterology
Renal
Hematology/Oncology
Adult Pulmonary
Orthopaedics
Clinical Pathology
Newborn Medicine

SURGERY
Anesthesiology
Emergency Room
Inpatient General Medicine
Adult Cardiology
Adult Gastroenterology
Infectious Disease
Surgical Pathology
Radiology
Pediatric Surgery
General Surgery
Surgery Preceptorship
Transplantation Surgery
THE ELECTIVE PROGRAM

The elective program in the fourth year of enrollment enables each student to somewhat individualize medical training, which to that point has been circumscribed and predictable. Students may use elective time to broaden their background in a particular specialty, pursue a research project or other scholarly endeavors, or explore career objectives in specialties covered in the required clerkships. Electives may be completed in major and affiliated teaching hospitals in this city, in teaching hospitals in other medical centers in the nation or abroad, or in preceptorships with full-time or volunteer faculty members. Other arrangements are subject to approval by the College of Medicine Curriculum Committee.

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 and the Office of Admissions and Student Affairs is able to be of assistance with questions of a general nature.

Drop/Add Procedures
Sue Pope will develop a tentative schedule for each student. Final schedules will be prepared after individual conferences. Once registration takes place (through the Office of Academic Records), the elective schedule becomes a computer 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 see Sue to change your schedule.

You must check with the Office of Admissions and Student Affairs (Sue Pope), or the appropriate department if a pre-arranged elective, for the availability of the course you wish to add. Sue will then e-mail Academic Records, with a copy to the appropriate departments and a copy to you, with the changes you wish to make.

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

The College of Medicine Curriculum Committee supports the value of off-campus electives in various specialties. Appropriate off-campus electives are those providing opportunities in areas in which the college cannot accommodate the number of students interested in the courses. Exploration of a potential residency is another logical reason for an off-campus elective.

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.

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. Section I and Section II of the form must be completed prior to return to the Office of Admissions and Student Affairs. Please supply complete information on the form!

UPON receipt of the completed off-campus form, the Office of Admissions and Student Affairs will notify the off-campus institution of the student’s academic standing, approval of the sponsoring department at UNMC and malpractice/liability insurance coverage while away from this campus. If your elective is canceled for any reason, it is YOUR responsibility to notify the department involved. If your elective is approved, a proper Drop/Add must be processed to reflect this change and for the purpose of receiving academic credit. We also need to know where you are at all times.

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
- IMED-740 Elective in South Africa
- 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. Every department has their own 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.

Compliance with these guidelines will ensure efficient handling of your requests.
OFF-CAMPUS ELECTIVES – Instructions for completing paperwork:

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. These are usually the institutions that do not participate in VSAS (Visiting Student Application Service).

The Office of Admissions and Student Affairs (Sue Pope) is the person that completes the application form where it indicates “school official, dean, or designee.” Many items are needed on these application forms and I am listing just a few below. I certify 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. The Office of Admissions and Student Affairs cannot provide this for you. You must order a transcript yourself by either visiting the Office of Academic Records (Student Life Center) or by visiting the student website: https://net.unmc.edu/care. You may have the Office of Academic Records send the transcript directly to the off-campus institution or to Sue Pope, Office of Admissions and Student Affairs, Zip 5527, for inclusion with your application.

HIPAA Training: If you need to provide certification of HIPAA training and/or any other training, you can access the same site 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. Since I (Sue Pope) do not have access to this website, I cannot do this for you. 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 Sue Pope in the Office of Admissions and Student Affairs.

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 and she can provide this information for you.
IMMUNIZATIONS: Many institutions want proof of immunizations. This information can be obtained from Tere Batt in Student Health. Tere can be reached at (402-559-5158) or by e-mail at t batt@unmc.edu.

USMLE STEP 1: Many institutions want proof that you have successfully completed USMLE Step 1. I can certify that you have by accessing the medical school website but cannot send them a “copy” of your scores. If you would bring in the score report that you received, I can make a copy of that to include with your application, if required.

EVALUATION OF YOUR PERFORMANCE WHILE AT THE OFF-CAMPUS INSTITUTION:
In order to receive credit for your performance at the off-campus institution, they 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.

FINAL NOTE: Once approved for an off-campus elective, you MUST confirm with Sue Pope that you are registered properly for this experience. If you are NOT registered properly, you will not receive credit for the experience.

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 Sue Pope in the Office of Admissions and Student Affairs spope@unmc.edu or (402-559-4169).

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: __________________________________________ Mailbox # in MSC __________

________________________________________________________________________________________

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

Name and address of off-campus institution Description of course to be taken (UNMC #)
________________________________________________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

Name of Evaluating Physician:
________________________________________________________________________________________

Dates of Rotation:
________________________________________________________________________________________

Telephone #: ________________________________

________________________________________________________________________________________

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
GRADUATION REQUIREMENTS

Basic Clerkships (Junior Year)
Family Medicine Community Preceptorship  8 weeks
Internal Medicine                   12 weeks
Obstetrics and Gynecology               6 weeks
Pediatrics                             8 weeks
Psychiatry                             6 weeks
Surgery                                 8 weeks

Senior Year (10 months – July through April)
In addition to the ICE Senior Seminars requirement (Page 38) and four weeks of a Senior Selective, all students must take a minimum of seven (7) four-week rotations chosen from the elective lists. Nine (9) months of scheduled courses are required.

Vacation
In addition to regularly scheduled winter and spring recess, students are allowed ONE month of vacation to be taken during the senior year, unless completing junior year requirements.

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.

Patient Simulators
The Curriculum Committee of the College of Medicine has instituted the use of patient simulators to assess the ability of students to perform history and physical examinations during the junior year. A minimal competency examination with a patient simulator during the junior internal medicine rotation is required.

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 for students graduating from the College of Medicine.

TIME OFF CLINICAL SERVICES

The College of Medicine Curriculum Committee strongly supports allowing students one day off service per week. Before taking time off the service, each student must obtain coverage for their patients and must inform the appropriate supervisory personnel of that coverage.

Students may take up to 25% time off a four-week, non-required clerkship or elective to pursue such things as reviews (see rules regarding time for such interviews), meetings, etc. The department must approve each student’s request individually and determine what make-up, if any, is required. No more than two weeks total absence will be allowed during any one academic year. Absence is not allowed from required clerkships.

Requests for more than 25% time off will be carefully considered before approval is given. Advance approval by the Curriculum Committee will also be required.

If students are absent from a clerkship/elective for any significant period of time, a note explaining the absence and make-up will be placed in the official student record in the Office of Admissions and Students.

RELEASE TIME – HOUSE OFFICER INTERVIEWING

Senior medical students are permitted to take time from their non-required rotations for the purpose of interviewing for a post-graduate position. A total of fourteen (14) days (ten weekdays and four weekend days) may be used. No more than five (5) weekdays and two (2) weekend days may be taken from any one non-required rotation.

It is the student’s responsibility to ask the clinical departments about planned absences.
INFORMATION FOR VISITING STUDENTS

Initial requests for elective time at the University of Nebraska Medical Center College of Medicine from students attending U.S. medical schools or osteopathic schools should be sent to the Office of Admissions and Student Affairs. Elective rotations are four weeks in length. We do not offer any two week elective experiences. Electives are not offered during the months of March, April, May or June.

Please contact Sue Pope by E-mail spope@unmc.edu with the following information:

Student Name and E-mail Address
Name of Medical School
Area of Interest
Dates available for elective

An e-mail response will include the following:
Copy of Elective Handbook
Medical Student Application Form for the elective

The application form requires documentation that:
The student is in good academic standing at their institution.
The student has completed all basic science courses and required junior clerkships prior to the elective.
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.
Approval from medical school official.

Upon receipt of the completed application form, the Office of Admissions and Student Affairs will determine if space is available in the elective required and time period desired before inquiry is made to the appropriate department.

If approval is granted, the application form will be completed and mailed in the appropriate manner:
Original to the Student
Copies to the student’s medical school and UNMC department

The University of Nebraska College of Medicine does not accept application for electives from students attending foreign medical schools and non-LCME accredited institutions. NO EXCEPTIONS!!
APPLICATION FOR FOURTH YEAR ELECTIVES
Visiting Student Application

SECTION ONE: To be completed by student.
(Please print clearly using black ink or type information)

Student’s Name:

__________________________________________________________

Student Street Address:

__________________________________________________________

City, State and Zip Code:

__________________________________________________________

Student Phone Number:

__________________________________________________________

Student E-Mail address:

__________________________________________________________

Complete Name of Medical School you are presently attending:

__________________________________________________________
School Address:

____________________

Completed application must be on file 4 weeks prior to course’s beginning date.

Please list your elective choice in order of priority:
(Please use UNMC course numbers)

<table>
<thead>
<tr>
<th>Department</th>
<th>Course #</th>
<th>Course Title</th>
<th>Dates</th>
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</tbody>
</table>

If prerequisite in the elective handbook states prior arrangement is necessary, the Office of Admissions and Student Affairs will contact the department involved. Please do not contact the department directly.

SECTION TWO: To be completed by student’s current medical school.

The student is in good academic standing at the home medical school.
Yes _________ No _________

The student will be in their final year of study before beginning this elective.
Yes _________ No _________

The student will receive academic credit from the home medical school and will pay tuition at the home school during the period indicated.
Yes _________ No _________

The student will be covered by home school malpractice/liability insurance ($1,000,000 is required – please provide proof).
Yes _________ No _________

The student will be covered by home school student health insurance. If not, the student must provide proof of comparable insurance.
Yes _________ No _________

The student has been trained in Universal Precautions in working with contagious patients.
Yes _________ No _________
The student has HIPAA training (Health Insurance Portability and Accountability Act). Verification must be provided. 
Yes __________ No __________

The student has passed USMLE Step 1. 
Yes __________ No __________

The student is certified in BCLS (Basic Cardiac Life Support) or ACLS (Advanced Cardiac Life Support).
Yes __________ No __________

The student will have successfully completed courses in Family Medicine, Internal Medicine, Obstetrics and Gynecology, Pediatrics, Psychiatry and Surgery PRIOR to participating in UNMC courses. 
Yes __________ No __________

A formal evaluation will be required upon completion of the elective at UNMC. (If yes – please provide a copy of the form. Otherwise, UNMC evaluation forms will be used).
Yes __________ No __________

If accepted for the elective(s), the student has my approval as well as my recommendation to participate in the elective(s) requested.
Yes __________ No __________

Name of Approving School Official: ____________________________________________

Title of Approving School Official: ____________________________________________

Signature of Approving School Official: __________________________________________

Office Phone: ________________________________________________________________
E-mail: ________________________________________________________________
FAX Number: ________________________________________________________________
Date of Application: __________________________________________________________

*******************************************************************************

33
UNMC USE ONLY:

Elective(s) approved:

YES __________

NO __________ Reasons for disapproval are listed below:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

STUDENT SHOULD REPORT TO:

________________________________________________________________________

Copies to:

_____ UNMC Department(s)

_____ Home Medical School (visiting student’s school)

_____ Student Copy

_____ UNMC Office of Admissions & Student Affairs (file copy)

RETURN COMPLETED APPLICATION TO:

Sue Pope, Program Coordinator
Office of Admissions and Student Affairs
U of Nebraska College of medicine
985527 Nebraska Medical Center
Omaha, Nebraska  68198-5527
Phone:        402-559-4169
FAX:          402-559-6840 (Hard copy must be mailed even if FAXed)
E-Mail:       spope@unmc.edu
DEPARTMENTAL DESCRIPTIONS

Please pay particular attention to:

Prerequisites
Availability of Electives

There are some months some electives are not available!!

Please follow directions regarding pre-arrangement of certain electives.

All electives are four semester hours credit.
M-ID-710 ICE Senior Seminars (REQUIRED COURSE FOR GRADUATION)
Credit Hours: 4
Number of Weeks: 4
Available times: February 2013 OR April 2013
Primary Faculty: Drs. Edward Vandenberg and Toby Free

This course is NOT available to visiting students.

Goals: The goals for the ICE Senior Seminars are (1) to teach difficult clinical issues at a point in the students’ careers when they have a clinical context for understanding their relevance and (2) to reconnect with classmates and reflect on professional experiences that are common to medical students who are completing their medical school careers; and 4) to assist students in their transition to internship/residency.

Structure: This required course will only be offered during the months of February 2013 and April 2013. Each student will take 5 required seminars, totaling 40 hours of class, and an additional 32 hours of elective seminars which are either 4 hours or 8 hours of class. Each student needs 72 total hours of required and elective seminars during the scheduled month. Each required seminar will be conducted during two (2) half day sessions, consisting of 8 total contact hours (per seminar). The five required seminars are:

Cross Cultural Medicine
End of Life/Palliative Care
Medical Mistakes and Malpractice
Quality Improvement in Healthcare
Personal Health and Financial Well-Being

Elective seminars are conducted in either 4 hour (one half day) or 8 hour sessions (two half-day sessions). (See Elective Seminar topics under menu here or in the Blackboard course: “M4 Senior Seminars” at http://my8.unmc.edu)

Students will request the February 2013 or April 2013 period for M-ID-710 at the time of registration for the senior year (see page 7). Prior to their selected month for ICE, students will have the opportunity to indicate their preference for the elective seminars. Though every effort will be made to assign students to their preferred options for elective seminars, due to space limitations, choices cannot be guaranteed.

During their schedule seminar days, students will not be excused from Seminar attendance, except in the class of illness or bereavement.

Instruction and assessment: The instructional format utilizes small group, interactive, case-discussion format. Lecture time and assigned readings are limited, except as noted. Students will be assessed based on attendance and participation. ICE Senior Seminars will assign only “Pass” or “Fail” grades. Any missed sessions must be remediated prior to graduation.
### Elective Seminars:

<table>
<thead>
<tr>
<th>TITLE</th>
<th>PRIMARY FACULTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addiction Medicine</td>
<td>Kathleen Grant, M.D.</td>
</tr>
<tr>
<td>Advanced Anti-microbial Management</td>
<td>Trevor VanSchooneveld, M.D., Mark Rupp, M.D.</td>
</tr>
<tr>
<td>Essential Psychiatric Skills for any Clinical Professional</td>
<td>Sharon Hammer, M.D.</td>
</tr>
<tr>
<td>Health Care for Gay, Lesbian, Bisexual, and Transgendered Patients</td>
<td>Jim Medder, M.D., Gary Beck, Ph.D.</td>
</tr>
<tr>
<td>Impact of Public Health Policy and the Role of Advocacy and Service</td>
<td>Tom Tape, M.D. &amp; Bob Bartee, M.A.</td>
</tr>
<tr>
<td>Improving the Healthcare Response to Intimate Partner Violence</td>
<td>Sue Michalski, R.N., M.S.</td>
</tr>
<tr>
<td>Landmark Legal Cases: How Courts Influence The Practice of Medicine</td>
<td>Rebecca Anderson, J.D., M.S.</td>
</tr>
<tr>
<td>Long-Term Care: The Places, the Practice and the Problems</td>
<td>Brenda Keller, M.D.</td>
</tr>
<tr>
<td>Pain Management</td>
<td>Tyrus Soares, M.D.</td>
</tr>
<tr>
<td>Payers of Health Care</td>
<td>Corey Shaw, M.A.; Bill Minier, M.D.</td>
</tr>
<tr>
<td>Reproductive Ethics</td>
<td>Rebecca Anderson, J.D., M.S., C.G.C., Jean Amoura, M.D.</td>
</tr>
<tr>
<td>Adult Rehabilitation</td>
<td>Aishwarya Patil, M.D.</td>
</tr>
<tr>
<td>Pediatric Rehabilitation</td>
<td>Howard W. Needelman, M.D. &amp; Cynthia Ellis, M.D.</td>
</tr>
<tr>
<td>Cardiac Arrest Management Simulation and Team Function</td>
<td>Paul Paulman, M.D.</td>
</tr>
<tr>
<td>Women’s Health</td>
<td>Katherine Jones, P.T., Ph.D.</td>
</tr>
<tr>
<td>Preventative Healthcare – Pregnancy and Childhood/Adolescence</td>
<td>Jim Medder, M.D.</td>
</tr>
<tr>
<td>Preventative Healthcare – Adult</td>
<td>Jim Medder, M.D.</td>
</tr>
<tr>
<td>EKG Reading Review</td>
<td>UNMC Cardiology</td>
</tr>
<tr>
<td>Preparing for Internship: Inpatient Care of Emergent Problems</td>
<td>Multiple Faculty</td>
</tr>
<tr>
<td>Physician as Patient</td>
<td>Paul Larsen, M.D.</td>
</tr>
<tr>
<td>Literature and Medicine</td>
<td>Paul Larsen, M.D.</td>
</tr>
</tbody>
</table>
STUDENTS MUST MAKE ARRANGEMENTS WITH MELINDA MURDOCK BEFORE SIGNING UP FOR ALL ANESTHESIOLOGY ELECTIVES.

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: Melinda Murdock (402-559-4175)  

The purpose of this clerkship is to give the student an opportunity to gain skills in airway management, ventilation, monitoring and establishing intravenous access. At the end of the four weeks, the student will have a working knowledge of preoperative preparation of patients and intraoperative and postoperative care. Students should gain understanding in areas of clinical pharmacology, cardiovascular-respiratory physiology, hemodynamic monitoring as well as care of the unconscious patient, principles of fluid management, principles of resuscitation and oxygen administration, and an approach to pain control with local or regional anesthesia as well as general anesthesia.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
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</tr>
<tr>
<td>Didactic conferences</td>
<td>10 conferences over four weeks</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>0</td>
</tr>
<tr>
<td>OR case supervision</td>
<td>35</td>
</tr>
</tbody>
</table>

ANES-760 Off-Campus Anesthesia Elective  
Periods offered: Each four or eight weeks  
Student Limit: By Arrangement  
Prerequisite: Must be arranged with Melinda Murdock and Dr. Hurlbert  
Contact Person: Melinda Murdock (402-559-4175)  

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. An off-campus elective application form must be submitted for this experience. (See off-campus elective application procedures).

ANES-799 Advanced Anesthesiology  
Prerequisite: ANES-720 Anesthesia  

This is an opportunity to select an area of interest from the aims of the Anesthesia elective for more intense study. Definition of problems and program of learning will be decided upon after discussion with faculty.
Objective: Students will be able to:

(a) Identify individual communication style and preferences.
(b) Describe current research on the relationship of clinician-patient communication and health outcomes, and clinician and patient satisfaction, in the context of patient-centered care.
(c) Identify team work communication in health care: Experience one-half to one-whole day with a member of the profession, other than medicine, including: nursing, pharmacy, allied health professions, chaplains, patient advocate, social work, and ethic consult service.
(d) Describe challenges and barriers to effective team communication.
(e) Describe the benefits of effective team care and Interprofessional care.

Intended Audience
UNMC students involved in clinical experiences who seek additional knowledge/skills related to communication with patients and other clinicians.

Activities
Weekly meetings with faculty/guests, review of key literature and presentation in a journal club format, shadowing experiences, analysis of media that demonstrate clinician’s communication styles (movies and TV), and a summary reflection paper/creative writing.

Plan:

<table>
<thead>
<tr>
<th>Objective</th>
<th>Activity</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify individual communication style and preferences.</td>
<td>RIAS CD-ROM</td>
<td>Workbook – self-assessment</td>
</tr>
<tr>
<td>Describe personal experience with communication in medicine.</td>
<td>Reflection paper</td>
<td>Self, peer and instructor review</td>
</tr>
<tr>
<td>What is patient-centered care?</td>
<td>Discussion and short paper</td>
<td>Self, peer and instructor review</td>
</tr>
<tr>
<td>Identify and evaluate current research on the relationship of clinician-patient communication patterns to health outcomes and clinician and patient satisfaction</td>
<td>Choose a topic to review and discuss in a journal conference format</td>
<td>Self, peer and instructor review</td>
</tr>
<tr>
<td>Identify communication styles of practicing physicians and other health professionals</td>
<td>Shadowing health professionals in clinics using a communication checklist (nursing, pharmacy, medicine, allied health)</td>
<td>Self assessment</td>
</tr>
<tr>
<td>Communication skills education</td>
<td>Develop an exercise for healthcare students</td>
<td>Self, peer, and instructor review</td>
</tr>
</tbody>
</table>
Topics covered:

- The biomedical model and the bio-psychosocial mode
- Patient-entered care
- The medical interview:
  - Setting an agenda for the visit
  - Understanding the patient’s perspective
  - Responding to emotions
  - Finding common ground
  - Listening to the patient’s story
  - Empowering and partnering in medicine
- Clinical outcomes of improved communication
- Methods and systems that capture and code the medical discourse
- Teaching physicians and patients to be better communicators
- Interprofessional communication

HPRO-770  Advanced Seminar in Medical Humanities
Andrew Jameton, Ph.D. or Virginia Aita, Ph.D.
Credit and time by arrangement year-round.

This course allows students to pursue special research interests in the medical humanities. The course is an independent study program with direction from appropriate faculty members.
EMERGENCY MEDICINE

Chair – Robert L. Muelleman, M.D.
Student Clerkship Director – Chad E. Branecki, M.D.
Student Clerkship Coordinator – Kelly Deerson
UH 3202C
402-559-2571

All electives through this department are pre-arranged with Kelly Deerson.

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

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

Procedures that need to be performed on a medical student’s patient will be completed by the student under the supervision of the attending physician, unless the attending physician determines that a higher level of expertise is required in order to safely complete the procedure.

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

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

Goals:

1. The student will be able to perform a directed, problem-focused history and physical examination.
2. The student will formulate a differential diagnosis addressing urgent and emergent conditions consistent with history and physical examination findings.
3. The student will demonstrate proficiency in basic patient care and monitoring procedures.
4. The student will become proficient in basic wound management.
5. The student will become proficient in basic splinting/immobilization techniques.
6. The student will become proficient in basic EKG interpretation.
7. The student will develop interpersonal skills and professional attributes necessary to provide care in the Emergency Department.
8. The student will understand the role the Emergency Department plays in the greater health care system and how the Emergency Physician may facilitate patient care, including pre-hospital care.
EMED-733  Trauma Center/Emergency Department – University Hospital
Periods Offered: Each four weeks
Student Limit: 4
Where to Report: Emergency Department

This is an experience at the Nebraska Medical Center University Hospital, which will show the operation of an emergency department in a large community by full-time faculty of the College of Medicine and allows students direct patient contact under supervision of an attending physician. In addition, the rotation includes wound care and a suturing lab, extremity injury, an immobilization lab, 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 Kelly Deerson or Dr. Chad Branecki at University Hospital (402-559-2571).

EMED-761  Off-Campus Emergency Room
Periods Offered: Each four weeks
Student Limit: By Arrangement
Contact Person: Kelly Deerson

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

Chair – Michael Sitorius, M.D.
Junior Clerkship Director – Paul Paulman, M.D.
Curriculum Clerk – Barbara Goodman
Room 4018 MSC
402-559-9327

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. A written case report must be submitted to the Family Medicine Department as a requirement of all Family Medicine coordinated clinical rotations.

FMED-705 Community Preceptorship (M3 requirement)
Periods Offered: Each 8 weeks
Semester Hours: 8
Prerequisite: Junior Status

This is a clerkship that allows junior students an “immersion” experience in Family Medicine in a rural Nebraska community. The student will participate in the care of the preceptor’s patients under the direct supervision of the preceptor. Students will care for patients in the office, hospital, and extended care facilities. A written report on a patient seen by you critiquing the discharge summary, hospital care, and cost is required. A report on a community health project is optional. A portion of the core clerkship content will be delivered on site via the Internet.

FMED-710 Orientation (Family Medicine Accelerated Program ONLY)
Periods Offered: July only

FMED-718 History & Physical Teaching Assistantship for M1 Students
Periods Offered: Year Round (July – April)
Student Limit: Varies
Faculty Contact: TBA
Staff Contact: Ron Bechdolt at 402-559-8689

This elective is pre-arranged with Ron Bechdolt and no longer meets the senior selective requirement for the senior year.
You will be assigned to a small group of M1 students in H&P practice small groups. You will also assist in other M1 and M2 H&P teaching assessment activities. Your level of participation will depend on the number of planned activities, the number of M4s participating and individual and group schedules.

**M4 Student Requirements (Approximate)**

**First Semester**
- Training session (TBA) 1 hour
- 4 small group session (1 hour each) 4 hours
- Session prep time/review M1 assignments 4 hours
- Assist with M1 OSCE 8 hours
- Assist with M2 OSCE 6 hours
- Review M2 H&P write-ups 4 hours

No more than ~29 hours

**Second Semester**
- 4 small group sessions (1 hour each) 4 hours
- Session prep time/review M1 assignments 8 hours
- Assist with M1 GYN workshop 4 hours
- Assist with M1 OSCE 8 hours
- Assist with M2 OSCE 6 hours
- Review M2 H&P write-ups 8 hours
- Assist with M1 suture lab 4 hours

No more than ~42 hours

Total* - 71 hours
*Time Commitment will vary but will not exceed 71 hours for the year.

**FMED-720 Family Health Center – Durham Outpatient Clinic**
**Staff**
**Periods Offered:** Every month except July
**Student Limit:** 1
**Where to Report:** Family Health Center – Contact Barbara Goodman 402-559-9327

This is a clinical experience in the Family Health Center at UNMC. Includes experience in treating adults and children with acute and chronic illnesses. Students are also welcome to participate in Family Medicine seminars.

<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>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
</tr>
</tbody>
</table>

**FMED-722 Family Health Center – Bellevue Medical Center Clerkship**
**Staff**
**Periods Offered:** Every month except July
**Student Limit:** 1
**Where to Report:** Bellevue Medical Center – Contact Barbara Goodman 402-559-9327

A clinical experience at the University satellite clinic located at 36th Street and Highway 370. Covers all clinical areas. Full-time and volunteer faculty.
<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>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
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</tbody>
</table>

**FMED-723  Family Health Center – Clarkson West Clerkship**  
Dr. Carol LaCroix and Staff  
Periods Offered: Every month except July  
Student Limit: 1  
Where to Report: Clarkson West Medical Associates (144th & West Center) – Contact Barbara Goodman 402-559-9327  
An exposure to all aspects of Family Medicine in a private office setting based at the Clarkson West Medical Associates. 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 and alternative health care systems. Located at 2727 South 144th Street, Suite 140, Omaha, Nebraska.

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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>
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<tr>
<td>Didactic conferences</td>
<td>4</td>
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<tr>
<td>Independent learning</td>
<td>4</td>
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<tr>
<td>Independent patient care</td>
<td>30</td>
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</table>

**FMED-727  Family Medicine Inpatient Service (UNMC)**  
Chief Resident and Staff  
Periods Offered: Every month except July  
Student Limit: 1  
Where to Report: Chief Resident – Room 2589 MSB - Contact Barbara Goodman 402-559-9327  
Students are given externship 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
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<tr>
<td>Didactic conferences</td>
<td>8</td>
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<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
<td>20</td>
</tr>
</tbody>
</table>

**FMED-728  Family Medicine Clerkship – Nebraska Methodist Hospital**  
PRE-ARRANGED THROUGH BARBARA GOODMAN 402-559-9327  
Dr. Joedy Istas and Staff  
Periods Offered: Every month  
Student Limit: 1  
Where to Report: Call Polly Negrete (354-1947) before rotation to arrange meeting location.  
A clinical experience, both inpatient and outpatient, on the Family Medicine Service. Average monthly census of patients per volunteer faculty member is 25.

<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>0</td>
</tr>
<tr>
<td>Independent learning</td>
<td>10</td>
</tr>
</tbody>
</table>
A clinical experience, both inpatient and outpatient, in Family Medicine. This rotation is coordinated through the Department of Family Medicine with the Lincoln Residency Program. To sign up, contact Barbara Goodman in Family Medicine (402-559-9327). For housing information only, contact Susan Vrbka at the Lincoln Family Practice Program (402-483-4591 Ext. 260).

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 Clarkson Family Medicine Residency 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 the inpatient setting under the guidance of Family Medicine residents and faculty. Dr. Roger Massie is in charge of instruction for the M4 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.
This is a four-week clinical experience, both inpatient and outpatient, in Family Medicine at the Offutt Air Force Base Family Medicine residency training program in Bellevue, Nebraska. The purpose is to allow senior medical students who are interested to perform a clinical rotation at the Offutt Air Force Base Family Medicine Residency Program. Dr. Paul Mueller and his faculty will be providing the instruction for the students during this rotation.

Being a family physician in the Air Force requires many unique skills. In order to prepare medical students for military residencies in Family Practice, the training has been designed to introduce them to the uniqueness of military medicine, along with a broad experience and understanding of Family Practice medicine. During this month, the medical student will be actively involved in both inpatient and outpatient management of a wide range of medical conditions.

The medical student will do initial assessments and evaluations of patients in the Family Practice Clinic setting with direct supervision by one of the Family Practice staff members. He/she will be actively involved in the outpatient procedures conducted in the Family Practice Clinic and Ehrling Bergquist Hospital. These procedures include vasectomies, flexible sigmoidoscopies, exercise treadmill testing, and colposcopies.

Inpatient procedures to be learned:
- Spontaneous vaginal deliveries
- Repair of simple midline episiotomies
- Neonatal circumcisions

The medical student will be expected to attend the Resident Lecture Series and Journal Club, along with participation in Grand Rounds held at the University of Nebraska Medical Center. He/she will have the opportunity to spend ½ day per week with Environmental Health and Bioenvironmental Engineering, conducting environmental surveys and testing to facilitate increased knowledge in community, occupational, and preventive medicine. During the clinical clerkship, the medical student will be required to complete a common problem project, which involves a written assessment and plan of management of an outpatient medical problem seen during the clerkship. He/she will be on call periodically during the clerkship with a Family Practice staff member so that he/she can be more readily exposed to acute medical problems and inpatient patient management.

The Family Practice Residency Coordinator will be responsible for the overall supervision and evaluation of the medical student during this rotation.

<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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<tr>
<td>Independent learning</td>
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<tr>
<td>Research project</td>
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<tr>
<td>Independent patient care</td>
<td>8</td>
</tr>
<tr>
<td>Procedures</td>
<td>10</td>
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</tbody>
</table>
FMED-735  
One World Community Health Center
PRE-ARRANGED THROUGH BARBARA GOODMAN
Dr. Kris McVea
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: T.B.A.

This is a four-week outpatient ambulatory Family Medicine elective for senior students at the One World Community Health Center. The elective will allow students an experience in ambulatory primary care of an underserved population. Aptitude in Spanish is required. Rotations are limited and must be cleared by Barbara Goodman and Dr. Kris McVea of the Department of Family Medicine. The purpose of this course is to allow senior medical students an opportunity to experience ambulatory care for the underserved Native American and Hispanic populations in south Omaha. Dr. Kris McVea is the clinic director and will be in charge of this clinical elective.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
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<td>1-2</td>
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<tr>
<td>Didactic conferences</td>
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<tr>
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<tr>
<td>Research project</td>
<td>10</td>
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<tr>
<td>Patient care</td>
<td>20</td>
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FMED-737  
Domestic Violence
PRE-ARRANGED THROUGH BARBARA GOODMAN
Periods Offered: Every four weeks
Staff: Drs. Paul Paulman and Layne Prest; Katherine Caniglia, - Healthcare Program Director; Domestic Violence Coordinating Council of Greater Omaha
Student Limit: 2 per month

A four-week immersion experience in domestic violence, prevention and treatment using a biopsychosocial community health model. During this course the student will:

Define domestic violence.
Describe the history, prevalence, incidence, prevention and treatment of domestic violence.
Complete a literature search on domestic violence and read selected journal articles and other material prior to starting other course activities (first week of rotation).

Participation in observational activities, including, but not limited to:
Two nights on call with domestic violence medical advocates in the UNMC Emergency Room.
Two eight-hour shifts with officers of the Omaha Police Department (OPD) Domestic Violence Unit.
One day with professionals and victims in the YWCA Women Against Violence (WAVE) program.
One day in a domestic violence shelter.
Two days attending court cases (Court Watch) involving victims of domestic violence and meeting with members of the Douglas County Attorney’s Office who deal with domestic violence.
Participating in at least one meeting of a batterer’s treatment group.

Prepare a written report or A-V presentation to be presented at an appropriate venue in the Department of Family Medicine. Follow at least one domestic violence victim through the initial treatment and referrals.

FMED-738  
Preventive Medicine
PRE-ARRANGED THROUGH DR. JIM MEDDER
Staff: Dr. James Medder
Periods Offered: November only
Student Limit: By Arrangement
The goal of this course is to expand students’ preventive medicine, public health and community health skills and evidence-based clinical preventive services, perform an in-depth study of one specific preventive service/disease of their choosing, and either prepare a written report or oral presentation of their findings. Additional learning activities include patient care with an emphasis on clinical prevention and visits to the Douglas County Health Department, Nebraska Health and Human Services and private community agencies.

**FMED-739 SHARING**  
**PRE-ARRANGED THROUGH BARBARA GOODMAN**  
**Staff:** Drs. Paulman and Medder  
**Periods Offered:** April ONLY  
**Student Limit:** 4 per year

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:**  
Barbara Goodman, Department of Family Medicine (402-559-9327)  
AND  
Sara Pirtle, International Studies (402-559-2924)  
**Students will be unable to do the elective if Sara Pirtle has not been contacted.**

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 Emilie Scoggins (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 Emilie Scoggins, 402-559-3791.

Elective in Antarctica – The 7th Continent
Staff: Audrey Paulman, M.D.
Periods offered: January – March (One student per rotation)
The purpose of this experience will be to allow selected students to study about expedition medicine, participate in an Antarctic expedition, assist the shipboard physician with care of passengers and crew during the sea passages and landings, and provide a report to the UNMC faculty/residents following the expedition.

FMED-752 Medical Spanish/Ambulatory Family Medicine
PRE-ARRANGED THROUGH BARBARA GOODMAN
Staff: Dr. Alex Dworak
Periods Offered: By Arrangement
Student Limit: By Arrangement
Where to Report: One World (Contact Tay Orr at 402-502-8860 or by e-mail at torr@oneworldomaha.org)

This is a four-week course providing senior medical students who currently possess an intermediate proficiency in conversational Spanish the opportunity to learn and practice listening to and speaking medical Spanish in a clinical setting. They will be utilizing an innovative educational language program, which includes an interactive DVD, CD-ROM and workbook. Half-days will be spent on independent study of medical Spanish. The second half of the day will be spent seeing primarily Spanish-speaking patients in a family medicine clinic. Students will be required to translate at the SHARING Clinic once during the month. Students must purchase the Spanish educational material at a cost of approximately $100* prior to starting the rotation. Student’s intermediate proficiency of Spanish will be determined by a short phone interview prior to selection for the course.

*Text can be borrowed but availability is limited.

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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>
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<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Patient care</td>
<td>20</td>
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</tbody>
</table>

FMED-753 Competent Care for LGBT
Periods Offered: September and January ONLY
Student Limit: By Arrangement
Faculty: Dr. Jim Medder and Dr. Gary Beck

THIS ELECTIVE MUST BE PRE-ARRANGED THROUGH DR. JIM MEDDER (402-559-6271)

Lesbian, gay, bisexual, and transgendered (LGBT) 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 LGBT 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 gay or lesbian, 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 LGBT individuals.
● Identify barriers to healthcare for LGBT 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 LBGT individuals.

Learning activities include patient care experiences with the LGBT population, assigned readings, lectures, case discussions, simulations, and visits to LGBT agencies and organizations. Faculty permission is required prior to registration.

Instructional methods:
Through assigned readings, didactic lectures, seminars and panel discussions, students will learn about the healthcare issues of the LGBT community that impact their health, such as coming out, non-normative stressors, family planning, etc.

A series of case discussions and simulations will be conducted to demonstrate comprehension of didactic material.

Clinical practice opportunities will be held during the elective for direct patient encounters with members of this population, including clinics with Dr. Mark Goodman and Dr. Susan Swindells (HIV/ID Clinic). (Dr. Goodman's patient population varies from 25-90% LGBT patients on any given day; students will be directed to the care of LGBT patients while in these practices/clinics.)

Each student will keep a reflective journal in which the student will record his/his 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:
● PFLAG (Parents, Families, and Friends of Lesbians and Gays) meeting
● GSA (Gay Straight Alliance) meeting at Creighton/UNO
● Meeting with legal counsel to address access to care and others concerns regarding insurance coverage
● Weekend training with NAP (Nebraska AIDS Project) and counseling/testing site experience at either NAP or Douglas County Health Department
● Palliative care for those with AIDS

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<th>Activity</th>
<th>Hours/Week</th>
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<td>Independent learning</td>
<td>9</td>
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<tr>
<td>Reflective journal</td>
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<td>Patient care</td>
<td>12</td>
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<tr>
<td>Agency site visits</td>
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</tbody>
</table>

**FMED-760 Private Practice Office Clerkship – Omaha**

**Periods Offered:** Every month

**Student Limit:** By Arrangement

**Where to Report:** T.B.A.

**Contact:** Barbara Goodman at 402-559-9327

This clerkship 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 Barbara Goodman at 402-559-9327

This clerkship 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).

FMED-762 Migratory Health
Periods Offered: April through July
Student Limit: 1
Where to Report: T.B.A.

The student will participate in the Nebraska Migrant Health Project in Gering, Nebraska, as a member of the health team in the Family Medicine clinics and other activities.

FMED-766 Community Health Care (MECO)
Periods Offered: Every four or eight weeks
Student Limit: By Arrangement
Where to Report: T.B.A.

Medical Education Community Orientation (MECO) Project is sponsored and arranged by the American Medical Student Association for pre-clinical or clinical medical students.

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

The student may select a project in which he is particularly interested and with the approval of the faculty, may 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.
INTERNAL MEDICINE

Chair/Lynell W. Klassen, M.D.
Student Clerkship Director/David V. O’Dell, M.D.
Sheila Rosenberg, Student Coordinator
55119 MSB
402-559-9386

IMED-705 Internal Medicine Required Clerkship (M3 requirement)
Staff at UNMC and OVAH
Periods Offered: Each 12 weeks
Student Limit: 30-33
Semester Hours: 12
Where to Report: UH5412C
Contact Person: Sheila Rosenberg (402-559-9386)

The student spends one half of the twelve-week clerkship as an integral member of a health care team responsible for the care of inpatients on the Internal Medicine service at the Omaha Veteran’s Hospital or UNMC. During the other half of the clerkship, students may elect a variety of medicine subspecialties and outpatient clinical experiences at the University of Nebraska Medical Center, the Omaha Veteran’s Administration Hospital and private practice internists. Throughout the clerkship, students will assume responsibility for the initial patient assessment and daily care commensurate with their level of training, supervised by Internal Medicine residents and attending faculty. Skills in patient interaction, decision-making and the fundamentals of Internal Medicine will be reviewed in formal sessions and daily attending rounds.

IMED-709 Geriatric Subinternship
Attending Staff: Dr. Jane Potter, Section Chief, Dr. Catherine Eberle, Dr. Brenda Keller, Dr. William Lyons, Dr. Debra Mostek and Dr. Edward Vandenberg
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Contact Travis Weyant (402-559-3964)
This elective must be pre-arranged with Travis Weyant.

Responsibilities:
1. Acute care of hospitalized patients with special focus on geriatric issues. Number of patients will depend on acuity and will be determined by attending and IM resident. Teaching rounds every day. The sub-intern will gain confidence in managing heart failure, stroke, pneumonia, and other geriatric diagnoses. Other issues receiving major emphasis will be patient safety and measures to minimize iatrogenic injury, and decision-making near the end of life.
2. Attendance at scheduled didactics (10 geriatric lectures) plus IM lectures Monday and Thursday. Friday IM Grand Rounds.
3. Will be required to round on two weekends during the month but no overnight call.
4. Will be scheduled for outside experiences as time allows – may include home/nursing home visits, geriatric assessment clinic, outpatient clinics and palliative care.

Activity Hours/Week
Rounds 12
Didactic conferences 5
Independent learning 8
Research project 0
Independent patient care 13
Outpatient Clinic 0
Nursing Homes 0
Home care 2
IMED-714  Lincoln/Omaha Dermatology Clerkship
This elective must be pre-arranged with Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

Dr. Rex Largen/Lincoln (July and January only)
Student Limit:  1
Where to Report:  Dr. Largen/Lincoln/1-402-423-7000

This full time elective is spent away from University Hospital, with a volunteer dermatologic faculty member in their private practice.

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<th>Hours/Week</th>
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<td>Research project</td>
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<td>Independent patient care</td>
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</table>

IMED-715  Inpatient General Internal Medicine Clerkship
The Nebraska Medical Center (NMC)
Drs. Osterholm, Eilts & Sheehan – The Nebraska Medical Center
Periods offered:  Each four weeks
Student Limit:  1 to each service
Where to Report:  Contact Dr. Osterholm (402-391-3800)

An inpatient general internal medicine experience.

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<tr>
<th>Activity</th>
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<tr>
<td>Rounds</td>
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<td>Private Office</td>
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IMED-716  Outpatient General Medicine Clerkship – Methodist
Dr. Lewis – Methodist Hospital
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  Contact Dr. Lewis (402-393-3616)

An inpatient general internal medicine experience.

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<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
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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.
Call Sheryl Latenser for Attending Schedule, 402-943-5515.

A Nebraska faculty intensivist is attending every other month alternating with a Creighton faculty intensivist.

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 taking in-house overnight call with their supervising resident.

Any time off during this rotation is discouraged so students should schedule residency interviews accordingly.

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 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. The student will be enrolled in a Blackboard Critical Care Medicine course and will be expected to complete the pretest within the first week and the post test prior to the end of the rotation, 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 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.

Activity          Hours/Week
Rounds            24
Didactic conferences  2
Independent learning Blackboard CCM course, approx.3 hrs/week
Research project  None
Independent patient care Not expected
Procedures       2

**IMED-720 Adult Cardiology**

UNMC – Dr. John Windle and Staff  
OVAH – Dr. Ed O’Leary and Staff  
Periods Offered: Each four weeks  
Student Limit: 8 – UNMC / OVAH  
Where to Report: UH 6162 at 8:30 a.m.  
Contact Person: Stefani Coleman (402-559-9252)  

UNMC & VA assignments will be made prior to the start of the rotation. No more than four students will be assigned to either site.

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 pertaining to 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

Lean 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 apply the knowing base to:

- Perform the cardiac examination.
- Interpret the 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 Services**

**The UNMC Service**
The University service is both a primary and consultative service. It generally consists of a faculty member and a fellow of which the faculty rotate in two-week blocks. The fellow is on the service for the entire month. There are 3-4 internal medicine residents, Emergency Medicine, Family Medicine or Pharmacy residents 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 so choose.

**The OVAH Service**
The OVAH Cardiology service is a consultative service. It has similar staffing as the UNMC Service with the exception that there is no nurse coordinator rounding with the team. The specific times for rounds will be dependent on the faculty and will be coordinated by the fellow on the team. The responsibilities and expectations of the student are the same as for the UNMC Service.

**Educational resources**
A list of relevant reading sources will be provided by the fellow.
Evaluations
The faculty, fellow and residents will evaluate the student by standard process. There is no examination at the end of the rotation. The students will be evaluated on their ability to be a team member and their skills for evaluation and treatment of the patients they follow.

IMED-720A  Adult Cardiology – Immanuel Hospital
Dr. Sojka and Staff
Periods Offered: Each four weeks
Student Limit: 1
You must pre-arrange this elective with Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

Four (4) weeks of inpatient and outpatient cardiology. Student will see consultations (with supervision) and review lectures in various aspects of Cardiology. Student will have an opportunity, if they wish, to observe interventional cardiology, electrophysiology and cardio-thoracic surgery procedures, as well as covering aspects of non-invasive cardiology including indications and benefits of non-invasive testing.

The student will be primarily with Dr. S. George Sojka.

Didactics: Acute Coronary Syndrome, Congestive Heart Failure, pacing and anti-arrhythmics, rheumatic heart disease and murmurs, ECG and coronary artery disease, and cardiac rehabilitation and prescription.

Activity                  Hours/Weeks
Rounds                   10 hours/week during inpatient service
Didactic conferences    1 hour/week
Independent learning    4 hours/week
Research project        0
Independent patient care 10 hours/week during inpatient service
Clinic                  40 hours/week during outpatient service

IMED-722  General Medicine
Drs. David O’Dell and J. Scott Neumeister
Periods Offered: July/August/October/November ONLY
Student Limit: 18 maximum – 6 minimum
Where to Report: 5412C UH 8:00 a.m.

In this period of one month, this elective will review basic concepts in Internal Medicine, EKG, problem-solving and Introduction to Journal Club.

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

IMED-723  Diabetes, Endocrine and Metabolism (D.E.M.)
Drs. Desouza, Larsen, Mack, Goldner, Neumeister, Shivaswamy, Boerner and Drincic
UNMC/OVAH
Periods Offered: Each four weeks  
Student Limit: 2  
Where to Report: Diabetes Center SSP / 1st Floor  
Contact Person: Carrie Helmberger (402-559-6876) (Office 2008 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. 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). Both outpatient and inpatient experiences are included, with time for clinical discussions.

### Activity Hours/Week

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<td>Research project</td>
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<tr>
<td>Independent patient care</td>
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<tr>
<td>Clinic</td>
<td>20</td>
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</table>

**IMED-724 Gastroenterology**  
UNMC – Dr. Mailliard and Division Faculty  
VAMC – As above  
Periods Offered: Each four weeks (estimated hours 7:00 a.m. – 5:30 p.m. M-F)  
Student Limit: 2  
Where to Report: The Education Coordinator (Lynne Roh) at 402-559-4356 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.

The Gastroenterology and Hepatology elective emphasizes the correlation of the basic science principles of physiology, pharmacology, and pathologic anatomy to clinical consultative gastroenterology. The two medical center locations utilize 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 regular scheduled conferences. There will be one position available monthly at each medical center.

**IMED-726 Infectious Disease**  
UNMC – Drs. Smith, Rupp, Swindells, Gendelman, Freifeld, Kalil, D. Florescu, Hewlett, Sandkovsky, 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. They will gain practical experience in the evaluation and management of numerous common and unusual infections along with training in the pathogenesis and prevention of infections. A series of formal, one hour didactic sessions on ID topics (e.g. antibiotics, outpatient ID, infections in immunocompromised hosts, nosocomial infections, and HIV) is presented during the month. Clinical microbiology training is also included with both lecture and lab time. 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 presented and discussed. Time in the HIV/AIDS clinic is also a component.
### Activity Hours/Week

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**IMED-727 Renal**

UNMC – Drs. Plumb, Florescu and Miles

**Periods Offered:** Each four weeks

**Student Limit:** 3

**Where to Report:** UNMC – Contact Lisa Allen at 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. Students are encouraged to participate in any of the six nephrology and transplant clinics that are available weekly. 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.

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<tr>
<th>Activity</th>
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**IMED-727A Renal at The Nebraska Medical Center (Clarkson)**

Staff: Drs. Bierman, Fischer, Knight, Lechnowsky, Neumann, D. Goldner, B. Poole and Deshmukh

**Periods Offered:** Each four weeks

**Student Limit:** 1

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

**Contact Person:** Tavi at 402-888-1645

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.

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<td>Dialysis</td>
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**IMED-728 End-of-Life Care: Hands On Experiences**

**Periods Offered:** Each four weeks

**Student Limit:** 2-3
Dr. Catherine Eberle (402-559-3965), Dr. Debra Romberger and Dr. William Lyons
Contact Person: Travis Weyant, 402-559-3964

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.

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<td>Oral presentation prep</td>
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<td>Home Visits</td>
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<td>Hospice Administration</td>
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IMED-730 Medical Oncology/Hematology
Drs. Armitage, Bierman, Bociek, Cowan, Darrington, Faber, Ganti, Grem, Kessinger, Maness, Marr, Rajan, Reed, Schwarz, Shonka, Subbian, Vose, and Wang

Periods Offered: Each four weeks
Student Limit: 4
Where to Report: Contact Shaun Capurro 402-559-5388, Lied Transplant Center 8th Floor
Clinic Contact: Katie Gross at 402-559-7983

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.

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

IMED-732 Spirituality and Health Care
Primary Faculty: Dr. Catherine Eberle and Rev. Deborah Boucher-Payne
Credit Hours: 4
Periods Offered: January and February ONLY
Student Limit: 2-4
Contact Person: Travis Weyant, 402-559-3964

This elective responds to student request for assistance in improving clinical skills related to patients’ spiritual needs. Students will be encouraged to discuss their own spirituality and the challenges they foresee in interacting with patients on these issues. This elective will also assist students in working effectively with hospital chaplaincy.

Objectives: Students will be better able to (a) Identify the effect of spiritual / religious diversity on the practice of medicine. (b) Critically evaluate current research on medicine and spirituality. (c) Assess the spiritual history of a patient and the implications for establishing a physician – patient relationship. (d) Reflect on the role of spirituality and religion in relationship to end-of-life and other critical issues.

Topics Covered: Current research on spirituality and health care; religious / cultural diversity; spiritual assessment techniques; active listening; end-of-life issues; world religions and forms of modern spirituality in relationship to health care; observation of hospital chaplains.

Required Texts (subject to change):

Student Activities: The elective will proceed according to the following schedule:

Week 1: This week is the introduction to spirituality and medicine. Students and faculty will discuss the distinction between spirituality and religion, investigate the diversity of religious beliefs, and learn about the philosophy behind the spiritual connection to healing. Students will be encouraged to explore their own belief systems and spirituality and will consider how these commitments will affect their practice of medicine. Students will read Spirituality in Patient Care (see above) and The Measure of Our Days (see above) as well as related articles.
**Week 2:** Week 2 is devoted to the practical considerations of spirituality and medicine, namely the ways in which the physician can engage with the patient regarding issues of spirituality. Students will investigate different methods for doing a spiritual assessment and will learn from the experiences of practicing physicians who are comfortable addressing the spirituality needs of their patients. Students will learn practical techniques for answering the spiritual queries of their patients in a way that is both respectful and meaningful. Students will read a book on spirituality and health of their choosing (from recommended list) and lead a 30-minute class session based on their reading in Week 3.

**Week 3:** Students will shadow hospital chaplains during week three in order to become familiar with the institutional response to patients’ spiritual needs. Students will both observer chaplain-patient interaction and participate in the spiritual assessment. Students will follow the chaplains as they present the patients’ spiritual needs to the care team to learn about the integration of physical and spiritual care. Students will also learn ways to address the challenge of maintaining fidelity to their own faith tradition while serving the needs of the patient.

**Week 4:** Students will culminate their learning experience by practicing spiritual assessment techniques and addressing patient spiritual needs by using standardized patients. Students will also engage in discussion about the efficacy of the assessment techniques in meeting both the needs of the patient and the needs of the clinician. Further reflection and reading will be encouraged.

**Assessment:** Students will engage in meetings to discuss their reading, observation and research as determined at the beginning of the elective. Full attendance is required. Students will present an oral book report in week three. In addition, students will complete a personal spiritual profile, keep a spirituality log, and complete both a reflection paper and a final paper during the elective.

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**IMED-733 Pulmonary Consultative Medicine**  
**UNMC – Dr. Austin Thompson and Staff**  
**Periods Offered:** Each four weeks  
**Student Limit:** 2  
**Where to Report:** Room 4011 Swanson Hall, Division Office, 9:00 a.m.  
**Contact Person:** Sheryl Latenser, 402-943-5515

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 occasionally. The course includes experience in the management of both simple and complex pulmonary problems, including primary care of cystic fibrosis patients. The students will learn interpretation of arterial blood gases and pulmonary function tests. A Blackboard course on Pulmonary Medicine is available and the student will be expected to take the pre-test at the beginning of the rotation and complete the post-test at the completion. There are also a number of didactic lectures scheduled usually at 11:00 a.m. as a topical review. Honors work will require enthusiasm and initiative, as well as student presentations to the Pulmonary Consult team of clinical topics related to clinical problems. 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
Periods Offered: Each four weeks  
Student Limit: 4  
Where to Report: Clarkson Tower, CKT 8th Floor Conference Room, 9:00 a.m.  
Contact Person: Sheryl Latenser, 402-943-5515

This sub-internship offers opportunity for management of critically ill patients, working closely with an ICU supervisory resident, the pulmonary and critical care fellow and attending physician. As a sub-internship, clinical expectations will include primary responsibility for all patients assigned to their care, writing a note each day on their patients to be cosigned by the supervising resident and attending physician, active participation on rounds, and taking in-house overnight call with their supervising resident.

Time off may NOT be taken during this rotation so students should schedule residency interviews accordingly.

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 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 Pulmonary and Critical Care Medicine fellow, as well as residents and physician extenders. Each team provides a difference experience, so students will rotate at mid month to provide the broadest experience possible. The student will be enrolled in a Blackboard Critical Care Medicine Course and will be expected to complete the pre-test within the first week and the post-test prior to the end of the rotation, 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 presentations to the CCM team of clinical topics related to clinical problems. In addition, attending physicians will schedule two hours of student-only contact per week to review presentations and review clinical topics of interest. 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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<tbody>
<tr>
<td>Rounds</td>
<td>24</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3</td>
</tr>
<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>2</td>
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</table>

**IMED-735**    Honors Program in Internal Medicine (By Invitation Only)  
UNMC Chief Resident, OVAH Chief Resident  
Periods Offered: Each four weeks (Except November/December/January)  
Student Limit: 1 per rotation  
Pre-requisite: Internal Medicine Required Clerkship with Honors grade  
Where to Report: UNMC-MSB Room 5515, 8:00 a.m.; OVAH-Chief’s Office, Room 7006, 7th Floor, 8:00 a.m.

You must pre-arrange this elective with Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

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. 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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The purpose of this elective is to increase the knowledge, skills and abilities of senior medical students in Occupational and Environmental Medicine. Instruction will consist of a four-week rotation with twenty hours of clinical time weekly, divided between the Occupational Health Clinic and Pulmonary Clinic. The student will also participate in the Tuberculosis Clinic at the One World Health Center.

The remaining twenty hours per week will be divided between:
- Case study review
- Using established learning modules including computer-aided instruction
- One industrial site visit (plant tour)
- One hour of didactic instruction per day

Students will have access to textbooks and journal articles on relevant topics. Ethical and legal issues in Occupational and Environmental Medicine will be presented by the Preventive and Societal Medicine Department.

Outcomes of the elective will be measured in three ways:
- Knowledge of principles of occupational and environmental medicine pre- and post-test;
- Attitude measurement of students regarding occupational and environmental medicine post-course; and
- Clinical skills at addressing clinic cases with occupational and environmental aspects using standardized patients post-course.

Upon completion of this elective, the students will:
- Verbalize an understanding of the basics of Workers compensation Insurance and apply knowledge to write return-to-work orders including light duty recommendations.
- Demonstrate ability to conduct a basic physical examination in occupational medicine, including surveillance, pre-placement, first for duty and know the requirements for the Department of Transportation physical. An understanding of the independent Medical and Disability examinations will be expected.
- Demonstrated knowledge of basic skills in employee health including adult immunizations, PPD skin testing and interpretations, and TB prophylaxis.
- Develop knowledge of issues in Travel Medicine and immunizations for foreign travel.
- Demonstrate knowledge of blood and body fluid post-exposure prophylaxis.
- Participate in job site visits and plant tours in order to gain an understanding of injuries and exposures in the work environment.
- Learn the value of and participate in case management services in occupational medicine.
- Describe issues in regional environmental medicine, including indoor air quality, lead and radon exposures.
- Identify and discuss basic ethical issues in occupational medicine, such as disclosure of risks, confidentiality, conflict of interest, employer contracts and insurance coverage.
- Learn how to assess patients in clinic who have occupational or environmental lung disease.
Activity | Hours/Week
--- | ---
Rounds | 0
Didactic conferences | 6
Independent learning | 5
Research project | 0
Independent patient care | 3
Plant Tours | 2

**IMED-740 Elective Experience in South Africa**

Periods Offered: Each four weeks

Student Limit: 4

Contact Person: Sheila Rosenberg, 402-559-9386

This elective is designed to give the student experience in practicing in the unique environment of South Africa. The student will gain additional insight into the practice of Internal Medicine and the delivery of health care in South Africa. The actual experience will be under Dr. Peter Jacob’s direction who is the head of the Departmental of Hematology and Bone Marrow Transplantation at Constantiaberg Medi-Clinic, Plumstead, Cape Town. The experience can be tailored to provide a very diverse experience including primary and specialty care, for inpatient or outpatient experience, in a rural or urban setting.

**This rotation must be pre-approved and set up through the Internal Medicine Student Education Office.** The initial contact person is the Internal Medicine Clerkship Coordinator, Sheila Rosenberg, 402-559-9386.

**IMED-741 Introduction to Inpatient Rehabilitation**

Location: Madonna Rehabilitation Hospital (MRH) – Lincoln, Nebraska

Periods Offered: Each four weeks

Student Limit: 1

Staff: Dr. Thomas Stalder, M.D., Medical Director and Staff

Contact Dr. Stalder at 402-486-9092 to approve BEFORE pre-arranging with Sheila Rosenberg at 402-559-9386.

Physical Medicine and Rehabilitation (PM&R), also referred to as physiatry, is a medical specialty concerned with diagnosing, evaluating and treating patients with limited function as a consequence of diseases, injuries, impairments and/or disabilities. The goal of the Physiatrist is to maximize an individual’s functional ability and improve quality of life.

This elective is especially recommended for students planning to specialize in Family Medicine, Internal Medicine, Neurology, Neurosurgery, Orthopaedics, Physiatry, or Rheumatology.

The student will receive an in-depth exposure to inpatient rehabilitation. He/she will gain experience in the diagnosis and comprehensive rehabilitation management of patients with Stroke (CVA), Spinal Cord Injury (SCI), and Traumatic Brain Injury (TBI), orthopaedic injury and/or joint replacement, amputations, rheumatoid arthritis and other disabling conditions. The student will work directly with four staff physiatrists, each of whom has a specialty area of CVA, SCI or TBI. He/she will be responsible for comprehensive workups and close follow-up of assigned patients.

The student will participate in the interdisciplinary team rounds and conferences and become actively involved by physical therapy, occupational therapy, speech-language pathology and psychology. The student will have the opportunity to participate in research activities being conducted at Madonna’s Institute for Rehabilitation Science and Engineering. The three centers in the Institute are the Center for Movement with Gain and Motion Lab and the Seating and Positioning Lab, the Center for Communication with Speech Physiology Lab, the Assistive Technology Lab and the swallowing lab and the Center for Outcomes and Informatics.
The MRH medical director will complete the evaluation of the student’s performance. The staff physiatrists will provide information on the student’s attendance, participation, case presentations and breadth of knowledge.


**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 elective must be pre-arranged with Sheila Rosenberg (402-559-9386)

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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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>8</td>
</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-746 Women’s Health**  
Faculty: Drs. Bonnema, Boerner and Taylor  
**Periods Offered:** Each four weeks EXCEPT December  
**Student Limit:**  2  
**Where to Report:** Please contact Dr. Bonnema; Call 402-559-7502 for information  
This elective is pre-arranged through Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

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 in general internal medicine, endocrinology, and gynecology clinics at UNMC along with other experiences including genetic counseling, dysplasia clinic, and domestic violence. Students will learn to manage mental health disorders common in women, menstrual dysfunction, menopausal symptoms, osteoporosis, and understand gender differences in disease presentation.

Additionally, the student will pick a topic in women’s health, research it, and give a short presentation on the topic at the end of the month. Lectures on women’s health topics will be provided during the month by participating faculty. The student will also be encouraged to attend scheduled lectures and conferences in general internal medicine, endocrinology, and gynecology.

**IMED-747 Sleep Medicine**  
Faculty: Teri J. Barkoukis, M.D.  
**Periods Offered:** Call Dolores Cunningham for available months (402-559-4097)  
**Semester Hours:** 4  
**Student Limit:** 1

A. Learn the approach to patient sleep disorders  
B. Learn the procedures involved in sleep medicine  
C. Learn about sleep breathing disorders  
D. Communicate educational information to patients
The objective of the Sleep Medicine rotation is to provide sufficient exposure and experience in the field of sleep medicine to understand how to approach, work up and treat the sleep disordered patient. The Sleep Medicine Department of The Nebraska Medical Center will provide access for the student to become familiar with the performance of the following studies:

a. Polysomnography  
b. Multiple sleep latency test  
c. Maintenance of wakefulness test  
d. Oximetry test  
e. Auto-titration positive airway pressure tests

The sleep medicine physicians of The Nebraska Medical Center will allow the student to evaluate patients referred for potential sleep disorders and to assist in their management of these patients.

Responsibilities of the student:

Sleep Laboratory/Sleep Clinic –  
The student will spend sufficient time in the sleep lab or with the sleep medicine attending to become familiar with the performance and scoring of tests, which are performed in the lab.

The student is responsible for learning the interpretation of sleep studies with the attending sleep specialist.

The student will attend the UNMC sleep clinics on a weekly basis as assigned by the sleep medicine program coordinator.

Sleep Medicine Conferences –  
The student will be responsible for attending the sleep medicine case conference and journal club during this month.

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.

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://www.fieldepi.com 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 edition) prior to the rotation.

Students will develop an understanding of the epidemiological and biostatistical 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 Michelen Heath-Holmes
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Contact Renee Crosby in the Rheumatology Office, 402-559-7288
This elective is pre-arranged through Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>6</td>
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<tr>
<td>Didactic conferences</td>
<td>8</td>
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<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>
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<tr>
<td>Patient care with attending</td>
<td>7</td>
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IMED-760  Off-Campus Internal Medicine Elective
Periods Offered: Each four weeks
Student Limit: By Arrangement (Approval from Dr. David O'Dell)

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. David O'Dell)

IMED-764  Off-Campus Dermatology Clerkship
Periods Offered: Each four weeks
Student Limit: By Arrangement (Approval from Dr. David O'Dell)

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

IMED-766  General Medicine Subinternship
Staff at OVAH
Periods Offered: Each four weeks
Student Limit: 2

Spots are extremely limited and essentially not available during July-December because they are reserved for students enrolled in the Primary Care Program.

Where to Report: CCTV Room/VA Hospital, 3rd floor, 8:00 a.m.
Contact Person: Dr. Allison Ramey, Chief Resident, 402-995-3920
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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>50-60</td>
</tr>
<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>
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</table>

**IMED-766A General Medicine Subinternship**  
**Staff at UNMC**  
**Periods Offered:** Each four weeks  
**Student Limit:** 4  
**Where to Report:** Dr. Brian Hollis, Chief Resident, MSB 5504, 8:00 a.m.

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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
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<tr>
<td>Didactic conferences</td>
<td>10</td>
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<tr>
<td>Independent learning</td>
<td>0</td>
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<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
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**IMED-798 Internal Medicine Research Elective in Infectious Diseases**  
**UNMC Staff:** Drs. Smith, Rupp, Swindells, Gendelman, Kalil, Freifeld, Hewlett, Sandkovsky, Van Schoonveld, and D. Florescu (Adult ID)  
**Periods Offered:** Each four weeks  
**Where to Report:** Infectious Diseases Secretary (402-559-8650)  
**Contact Person:** Dr. Smith, 402-559-8650

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, Orthopaedic 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 are encouraged to contact the ID division to discuss planning of projects.

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<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>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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</tbody>
</table>
IMED-799 Research in Medicine
Internal Medicine Staff
Periods Offered: Each four or eight weeks
Student Limit: By Arrangement
NEUROLOGICAL SCIENCES

Interim Chair/Daniel Murman, M.D.
Clerkship Director/Diego Torres-Russotto, M.D.
Student Coordinator/Sarah Kepple
UT 4100
402-559-5804

All electives in this department must be pre-arranged with Sarah Kepple.

NEUR-736   Clinical Neurology Elective  
Periods Offered: Each four weeks
Student Limit: 1-UNMC, 1-Methodist

UNMC – Drs. Fayad, Murman, Thaisetthawatkul, Torress-Russotto, Zabad, Frankel, Murr, McLaughlin
Methodist - Drs. Goldner, Cooper, Cotton, Sundell, Franco, Diesing, Fernandes, Bertoni

Where to Report:
UNMC – Room 4100 UH 8:00 a.m.
Methodist - Contact Dr. Goldner (Ask for Karen 402-354-8640)

This elective offers students a neurology clinical experience where evaluation, diagnosis and managerial procedures are studied under close faculty supervision. Focus is also flexible enough to serve the student's interest in electroencephalography, electromyography and/or neuropathology.

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<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
<td>10</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>10</td>
</tr>
<tr>
<td>Research project</td>
<td>5</td>
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<tr>
<td>Independent patient care</td>
<td>5</td>
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NEUR-761   Off-Campus Neurology Elective  
Periods Offered: Each four weeks
Student Limit: By Arrangement through Neurology

Arrangements must be made by the student and approved through the Neurological Sciences Office at least **two months** in advance of the elective date.

NEUR-790   Clinical Research Elective in Neurology  
Periods Offered: Each four weeks
Student Limit: By Arrangement with Neurological Sciences faculty (402-559-8932)

YOU MUST CONTACT THE DEPARTMENT OF NEUROLOGICAL SCIENCES FOR FACULTY APPROVAL.

This elective offers students an opportunity work with faculty members in clinical investigations of neurological diseases and to participate in ongoing research projects. Definitions of problems and programs of learning are to be decided upon discussion with faculty.
OBSTETRICS AND GYNECOLOGY

Carl V. Smith, M.D., Chair, UMA 4577
Contact Faculty: Katherine Finney, M.D.
Teresa Ingraham (M3)/Education Assistant, 4570 MSB, 402-559-4405
Janice Golka (M4)/Residency Program Coordinator, 45117 MSB, 402-559-6160

OBYG-705  Required Junior Clerkship in Obstetrics and Gynecology (M3 requirement)
Periods Offered: Each six weeks
Student Limit: 20
Semester Hours: 6

Junior students are assigned to the University Hospital and Methodist Hospital for inpatient experience and to the University Hospital Clinics for outpatient obstetric and gynecologic clinics. They will follow the progress of patients in labor, assist at operative procedures, and maintain a complete record until the patient is discharged from the hospital. Outpatient experience will include participation in clinics covering the following areas: normal and high risk obstetrics, gynecology, gynecologic oncology, and family planning. Seminars, conferences, and ward rounds are scheduled regularly.

OBYG-710  Advanced Outpatient Obstetrics and Gynecology
Katherine Finney, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: 45117 MSB
This elective must be pre-arranged with Janice Golka.

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

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

OBYG-720  Advanced Inpatient Obstetrics
Paul G. Tomich, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: 45117 MSB
This elective must be pre-arranged with Janice Golka.

This is a University Hospital inpatient service at an advanced level emphasizing obstetrics, designed to increase individual competence. There is daily participation in staff seminars and teaching activities. The experience includes both hospital and outpatient experiences in both the normal and high-risk obstetrical cases. Call opportunities are available based on the M3 schedule.

OBYG-721  Gynecologic Oncology
Steve Remmenga, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: 4568 MSB
This elective must be pre-arranged with Janice Golka.

A University 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<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

This elective must be pre-arranged with Janice Golka.

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>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>Varies with patient need</td>
</tr>
<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>
</tr>
</tbody>
</table>

**OBGY-725 Maternal Fetal Medicine**

**Paul G. Tomich, M.D.**

**Periods Offered:** Each four weeks

**Student Limit:** 1

**Where to Report:** 45117 MSB

This elective must be pre-arranged with Janice Golka.

A Nebraska Medical Center service including both inpatient and outpatient activities. Students will evaluate patients in clinics, assist in ultrasound evaluation of patients as assigned, assist with operative procedures and participate in daily rounds on the Maternal Fetal Medicine service. Students will also participate in conferences including Perinatal Conference, Grand Rounds and Case Conferences on a weekly basis. A presentation on a relevant topic chosen by the student is encouraged during the rotation.
<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</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**  
Paul G. Tomich, M.D.  
**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**This elective must be pre-arranged with Janice Golka.**

An outpatient ultrasound experience working with the sonographers and MFM physicians in the Prenatal Diagnostic Center at Nebraska Medical Center. Students will learn basic ultrasound skills which will include hands on scanning including one to two genetic counseling appointments with ultrasound each week. A presentation on an ultrasound topic chosen by the student and presented at Perinatal Conference the third or fourth week of the rotation is encouraged.

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

**OGBY-760 Off-Campus Obstetrics and Gynecology Elective**  
Katherine Finney, M.D.  
**Periods Offered:** Each four weeks  
**Student Limit:** Must be pre-arranged with Janice Golka.

Electives in other geographical teaching settings. Sites for training include other University programs, private hospital residency programs or Indian Health Service Hospitals (Phoenix, Arizona; Gallup, New Mexico). An Off-Campus Elective Application form must be submitted for this experience.
OPHTHALMOLOGY

Chair/Thomas W. Hejkal, M.D., Ph.D.
Marlene Novotny, Curriculum Clerk
Eye Clinic – 3925 Dewey Avenue
402-559-4276

OPHT-720 Clinical Ophthalmology
Dr. Hejkal – UNH/OVAH
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: UMA Eye Specialties, 40th & Dewey, 8:00 a.m.

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. Fellmeier, M.D.
Prerequisite: 2 week Ophthalmology rotation (under Surgery Clerkship in M3 year) OR OPHT-720 Clinical Ophthalmology (senior level four week elective)

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
Drs. Michael Griess (Ophthalmology) and Dr. William Lydiatt (Otolaryngology/Head and Neck Surgery)
Periods Offered: Each four weeks
Student Limit: 4
Where to Report: Varies – Contact Marlene Novotny (Department of Ophthalmology), 402-559-4276

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

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
ORTHOPAEDIC SURGERY AND REHABILITATION

Chair/ Kevin L. Garvin, M.D.
Academic Coordinator/ Lori K. Reed, M.D.
Gerianne Miller, Curriculum Coordinator
2544 UMA, 402-559-2258

ORTH-722 Orthopaedic Surgery
Periods Offered: Each four weeks
Where to Report: 6:30 a.m. Room 1005 MSC for Grand Rounds
This elective must be pre-arranged with Geri Miller, 559-2258.
Student Limit: 5

Black Team (Upper Extremity and Hand) – 1 student
Blue Team (Spine) – 1 student
Gold Team (Adult Reconstruction) – 1 student
Green Team (Trauma/Foot & Ankle/Musculoskeletal Oncology) – 1 student
Red Team (Sports Medicine) – 1 student

Faculty per team:

Black Team – (Upper Extremity and Hand): Dr. Edward Fehringer (shoulder/upper extremity)

Blue Team (Spine): Dr. Chris Cornett

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

Green Team – (Trauma/Foot & Ankle/Musculoskeletal Oncology): Drs. Matthew Mormino (trauma); Lori Reed (foot and ankle) and Sean McGarry (musculoskeletal oncology)

Red Team – (Sports Medicine): Drs. Miguel Daccarett and Mark Dietrich

This orthopaedic experience will offer both inpatient and outpatient management of orthopaedic problems on the team selected. The student will be expected to attend all resident and didactic teaching conferences and assist in the management of all inpatients. The student will benefit from the association with the faculty and the residents and become acquainted with the facets and techniques of orthopaedic surgery.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Weeks</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>6-8</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>6</td>
</tr>
<tr>
<td>Research project</td>
<td>Varies</td>
</tr>
<tr>
<td>Clinic</td>
<td>8-10 hours</td>
</tr>
<tr>
<td>Surgery</td>
<td>15-20 hours</td>
</tr>
</tbody>
</table>

ORTH-723 Pediatric Orthopaedic Service
Drs. Huurman, Esposito, Scherl, Hasley and Jenson
Periods Offered: Each four weeks
Student Limit: 1

This elective must be pre-arranged with Linda Kraut, Pediatric Orthopaedic Services, 402-955-6317.
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. This is an in-depth evaluation of the examination of the child and the problems unique to children and, therefore, will not be of general interest to each and every senior student.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>4</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>6</td>
</tr>
<tr>
<td>Research project</td>
<td>Variable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Office</td>
<td>16-20</td>
</tr>
<tr>
<td>Operating Room</td>
<td>16-20</td>
</tr>
</tbody>
</table>

**ORTH-762 Off-Campus Orthopaedic Surgery Elective**

An Off-Campus Elective Application form must be submitted for this experience.
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. For an inpatient experience designed for those interested in surgery, the Head and Neck/Plastics Service is available. General ENT services provide more outpatient emphasis.

**ORL-720 Otolaryngology Clerkship**

**Staff**

**Periods Offered:** Each four weeks

**Student Limit:** 6 – University Hospital; 2 assigned to VA Hospital

**Where to Report:** Tumor Board Conference – 7:00 a.m. UNMC McWhorter Room, UMA 3570

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.

**NOTE:** One week of the elective may be spent at the VA ENT Clinic and operating room with the other three weeks at UNH.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>5</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>5</td>
</tr>
<tr>
<td>Surgery</td>
<td>10-20</td>
</tr>
</tbody>
</table>
ORL-760    Off-Campus Elective in Otolaryngology
Periods Offered:  By Arrangement
Student Limit:  By Arrangement

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 or Dr. William Lydiatt.
PATHOLOGY AND MICROBIOLOGY

Chair/Dr. Steven Hinrichs
(Clinical)/Dr. Subodh Lele
Kathryn Dufek, Clinical Services Manager
3503 MSB
402-559-7760

Students must make arrangements with Kathryn Dufek (Room 3503 MSB, 559-7760) before signing up for ANY Pathology electives.

PAMM-720   Anatomic Pathology
(Includes Surgical Pathology, Cytopathology and Autopsy Pathology)
Pathology Faculty
Periods Offered: Each month
Student Limit: 2 (By Arrangement)
Where to Report: Room 3503 Medical Services Building (Previously known as UMA)

Students will spend part of their rotation on the surgical pathology service, and the cytology service. While on the surgical pathology service, the student will spend half of their time in the gross room assisting the pathology resident in the gross examination and processing of surgical specimens. They will spend the other half of their time microscopically examining surgical specimens with a staff pathologist and resident. While on the cytology service, the student will be involved with the microscopic examination of both GYN and non-GYN cytology specimens with a staff pathologist. Students will also participate on the autopsy service where they will assist the resident pathologists in performing autopsies. Students will be expected to attend all of the 8-9 a.m. resident teaching conferences. The student will also be expected to attend one interdisciplinary conference per week. At the end of the rotation, the student will be required to give a 15-20 minute presentation to the resident and staff pathologists on an anatomic pathology topic of their choice. Evaluation will be 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Gross &amp; Microscopic</td>
<td>25</td>
</tr>
<tr>
<td>Examination of specimens</td>
<td></td>
</tr>
<tr>
<td>Preparation of required</td>
<td>3</td>
</tr>
<tr>
<td>Presentation</td>
<td></td>
</tr>
<tr>
<td>Participation in Interdisciplinary Conferences</td>
<td>1</td>
</tr>
</tbody>
</table>

PAMM-760   Off-Campus Pathology Elective
By Arrangement with Dr. Lele

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
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. The student will be required to give a 15-20 minute presentation to the resident and staff pathologist on the specialty pathology topic. Independent study may also be arranged with pathology faculty not listed here.

<table>
<thead>
<tr>
<th>Specialty</th>
<th>Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular Pathology</td>
<td>Dr. Radio</td>
</tr>
<tr>
<td>Clinical Chemistry</td>
<td>Dr. Pirruccello</td>
</tr>
<tr>
<td>Dermatopathology</td>
<td>Dr. DiMaio</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>Drs. Aoun, Pirruccello</td>
</tr>
<tr>
<td>Gynecologic Pathology</td>
<td>Dr. Lele</td>
</tr>
<tr>
<td>Hematopathology</td>
<td>Drs. Weisenburger, Chan, Greiner, Aoun, Fu</td>
</tr>
<tr>
<td>Immunopathology</td>
<td>Dr. Johnson</td>
</tr>
<tr>
<td>Molecular Biology/Virology</td>
<td>Dr. Hinrichs</td>
</tr>
<tr>
<td>Neuropathology</td>
<td>Dr. McComb</td>
</tr>
<tr>
<td>Renal Pathology</td>
<td>Drs. Foster, Talmon</td>
</tr>
<tr>
<td>Transfusion Medicine</td>
<td>Dr. Landmark</td>
</tr>
<tr>
<td>Transplantation Pathology</td>
<td>Drs. Wisecarver, Radio</td>
</tr>
<tr>
<td>Urologic Pathology</td>
<td>Drs. Johansson, Lele</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Drs. Hinrichs, Iwen</td>
</tr>
<tr>
<td>Basic Research/Independent Study</td>
<td></td>
</tr>
<tr>
<td>Genetic abnormalities in bone and soft tissue tumors – Dr. Bridge</td>
<td></td>
</tr>
<tr>
<td>Biomolecular immunology, lymphotropic viral oncogenesis and psychoneuroimmunology – Dr. Johnson</td>
<td></td>
</tr>
</tbody>
</table>
PEDIATRICS

Chair/Dr. John Sparks
Director, Undergraduate Medical Education/Dr. Sharon Stoolman
Gary Beck, Ph.D., Instructor and Coordinator, Room 5150 UH, 402-559-7351
Patty Davis, Staff Assistant, Room 5148A UH, 559-9538

PEDS-703 Required Primary Clerkship in Pediatrics
Periods Offered: Each eight weeks
Student Limit: 20
Semester Hours: 8
Where to Report: UT Room 7412

The Pediatrics clerkship is divided into two tracks, the “University” track and the “Community” track. The University track is taught in Omaha and consists of a two week block on inpatient, a two week block in a general pediatrics clinic, and four weeks of specialty clinics. The Community Track is taught at various sites across Nebraska, consisting of an intensive exposure to primary care Pediatrics as practiced in a rural setting for 4 weeks. This may be the first or second half of the clerkship; the remaining weeks consist of 2-weeks of inpatient and 2-weeks of specialty clinics. The goals and curriculum for the clerkship are based on the standardized curriculum for Pediatrics established by the Council on Medical Student Education in Pediatrics. The curriculum is delivered through lecture, self-study, computer-aided instruction and clinical teaching.

ALL ELECTIVES IN PEDIATRICS ARE PRE-ARRANGED AND WILL BE SCHEDULED BY E-MAILING GARY BECK AT gbeck@unmc.edu.

PEDS-722 Pediatric Cardiology and Cardiovascular Disease
Drs. Kugler, Danford, Erickson, Fletcher, Gumbiner, Delaney, Kutty, Hsu
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Dr. Kugler’s Office (kgraybill@childrensomaha.org)

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

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

PEDS-724 Pediatric Emergency Medicine
Dr. Duane Jensen
Periods Offered: August and October
Student Limit: 1
Where to Report: T.B.A.
The purpose of this elective is to provide students with practical experience in pediatric emergency medicine and urgent care centers. The experience gained through this elective will enable the students to understand what it means to practice in this type of environment, which will help them determine if it is an appropriate career choice. Under the guidance of board certified pediatricians and emergency medicine physicians, the students will see a broad spectrum of patient problems.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds (Shifts)</td>
<td>24</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>2</td>
</tr>
<tr>
<td>Independent learning</td>
<td>6</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
</tbody>
</table>

**PEDS-726  Pediatric Hematology Oncology and Bone Marrow Transplantation**  
Drs. Coccia, Abromowitch, Beck, Coulter, Gordon, Harper, Lowas, and Thompson  
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. One half of the month is spent at each location. The beginning of the month is spent at UNMC. During this 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 Children’s is largely in the clinic. Inpatient rounds are done as time permits. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>30</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
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<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
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**PEDS-727  Human Cytogenetics**  
Dr. Sanger  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Human Genetics Office

The goal of the course is to familiarize students with laboratory techniques in Human Cytogenetics. The course will present techniques and applications of sex chromatin preparations, short-term and long-term tissue cultures, chromosome preparation and karyotype analysis.

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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>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project/lab work</td>
<td>40</td>
</tr>
</tbody>
</table>
PEDS-728  Newborn Medicine  
Drs. Anderson-Berry, Bolam, Fletcher, Kaftan, Schmidt, and Zach  
Periods Offered: Each four weeks  
Student Limit: 2  
Where to Report: Neonatal ICU (The Nebraska Medical Center)

The student will serve as a sub-intern under the supervision of a staff neonatologist and the pediatric house officer. The student will be exposed to the critical care of sick and high risk neonates and the convalescent care of recovering, growing neonates. Emphasis will be placed on resuscitation of the high risk infant, recognition of signs and symptoms and neonatal illness with the formation of a differential diagnosis and treatment plan; monitoring of physiologic parameters; calculation of fluid, electrolyte and nutrition requirements; assessment of blood gasses and respiratory treatment strategies. The student will have the opportunity to participate with staff and house staff in minor procedures. Scheduling and assignment will be as per house staff and attending neonatologist. Didactic instruction will be provided through daily rounds, conferences, and lectures. There is an average of 45 new admissions per month with an average of 24 patients per day.

Additional students may be scheduled once the Creighton University senior schedule is completed.

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

PEDS-729  Pediatric Endocrinology  
Drs. Cabrera, Corley, and Desmangles  
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  
Drs. Fischer, Quiros, Trauernicht, and Zapata  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Children’s GI Clinic

The student will:

1). Become broadly familiar with gastrointestinal pathophysiology in infants, children and adolescents;  
2). Assist in evaluation of patients with gastrointestinal, hepatobiliary and nutritional disorder;
3). Participate in gastrointestinal procedures; and
4). 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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
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<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
<td>4</td>
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<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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**PEDS-731 Genetics and Metabolic Disease**
Drs. Buehler, Lutz, Olney, Rush, and Sanger
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:

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

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds/Clinics</td>
<td>20</td>
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<tr>
<td>Didactic conferences</td>
<td>4</td>
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<tr>
<td>Independent learning</td>
<td>6</td>
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<tr>
<td>Research project</td>
<td>10</td>
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**PEDS-732 Pediatric Pulmonology (including cystic fibrosis)**
Drs. Colombo, Barker, Sammut, Thomas, and Wilson
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: E-Mail Heather Thomas, M.D. at hmtthomas@unmc.edu

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.

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

PEDS-734 Clinical Pediatric Neurology
Drs. Larsen, McAllister, Nelson, Oliver, Pavkovic, and Wright
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. Simonsen, Delair and Nichols
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 elective is NOT available for visiting students.

This elective provides the student with an opportunity for in-depth study of clinical and laboratory
aspects of infections in children. Students will be expected to read a course syllabus and will be
asked to 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 1½ 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.
### PEDS-736 Developmental Pediatric Practicum
**Drs. Ellis and Needelman**

**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** T.B.A.

This elective will provide the student with an orientation to chronic care and developmental disabilities through both clinical and didactic experiences. The student will observe two comprehensive interdisciplinary patient evaluations and summary conferences, attend core curriculum presentations, observe developmentally disabled children in the classroom, attend approximately seven different types of clinics, and receive experience in the use of diagnostic screening techniques such as the Denver Developmental Screening Test. The student will become familiar with the role of the physician in the diagnosis, evaluation and clinical care of children, youth, and adults with developmental disabilities and chronic handicapping conditions.

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<th>Activity</th>
<th>Hours/Week</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>5</td>
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<td>Research project</td>
<td>0</td>
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<td>Independent patient care</td>
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### PEDS-737 Pediatric Rheumatology
**Dr. Reinhardt**

**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Information will be e-mailed prior to the first day.

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 both an inpatient and outpatient setting. Under the guidance of a board certified pediatric rheumatologist, the student will see a broad spectrum of patient problems ranging in age from toddler to young adulthood.

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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>
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<tr>
<td>Research project</td>
<td>2</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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### PEDS-742 Pediatric Nephrology
**Dr. Lovell**

**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Information will be e-mailed prior to the first day.

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

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

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

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<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
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<tr>
<td>Didactic conferences</td>
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<tr>
<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. Finken

**Periods Offered:** March

**Student Limit:** 4

**Where to Report:** Dr. Finken’s Office

**Prerequisite:** Matching in Pediatrics or Medicine/Pediatrics

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 self-learning and improving one’s ability to think critically.

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

1.) Reviewing a patient’s case and presenting it at morning report;
2.) Case tutorials with Dr. Finken;
3.) Home health visits with a nurse;
4.) Attending conferences such as the Patient Management Conference and Pediatric Grand Rounds; and
5.) Daily assignments.

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<th>Activity</th>
<th>Hours/Week</th>
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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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<td>Independent patient care</td>
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**PEDS-751 Pediatrics Subinternship**

**PICU:** Drs. Kadlec and Mysore (CMH)

**Wards:** Drs. Dolter, Killefer, Lerner, Snow, Snyder, Stoolman, Susman and Vernon (CMH)

**Wards:** Drs. Walburn, Finken, Pitner, and LaCroix (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 (Contact Gary Beck if you have questions)
**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>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
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<tr>
<td>Research project</td>
<td>0</td>
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<tr>
<td>Independent patient care</td>
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**PEDS-760 General Pediatric Preceptorship**

**Periods Offered:** Each four weeks  
**Student Limit:** By Arrangement

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 Gary Beck at 559-7351.

**PEDS-764 Off-Campus Pediatrics Elective with University Affiliation**

**Periods Offered:** Each four weeks  
**Student Limit:** None

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

**PEDS-796 Pediatric Research Staff**

**Periods Offered:** Each four weeks  
**Student Limit:** By Arrangement

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.
PSYCHIATRY

Chair/Steven P. Wengel, M.D.
Clerkship Director: Howard Liu, M.D.
Curriculum Coordinator: Stephanie Hansen, RYC, 515 S. 26th St., Room 305, 402-552-6002

It is strongly recommended that students select electives in areas other than that in which they have had previous clerkship experience. Students desiring assistance in selecting electives and/or career planning should contact Howard Liu, M.D. at 552-6323.

All electives must be pre-arranged with Stephanie Hansen and a supervisor arranged. You will report to that supervisor on the first day of your elective.

PSYC-714 Community Psychiatry
Dr. Susan Boust
Periods Offered: Each four weeks
Student Limit: 1

This elective is by permission and interested students should discuss activities and educational options with Dr. Boust prior to selection of the elective.

Diverse experience with individual treatment of persons with serious and persistent mental illness in a community setting. Students will work with patients receiving care through the Assertive Community Treatment team, make at least one visit to a regional center, tour facilities for care of homeless persons and persons receiving rehabilitation services in several Omaha agencies. Focus will be on development of individualized treatment plans for persons with SPMI in various stages of illness and in physician assistance in movement toward recovery of serious mental illness.

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<th>Activity</th>
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<tr>
<td>Rounds</td>
<td>20</td>
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<tr>
<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
<td>20</td>
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<tr>
<td>Research project</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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<tr>
<td>Multidisciplinary Meeting</td>
<td>3</td>
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<tr>
<td>Grand Rounds</td>
<td>1</td>
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PSYC-721 Individualized Studies in Psychiatry
Periods Offered: Each four weeks
Student Limit: By Arrangement

Demonstrations, seminars, readings or clinical experience in such areas as substance abuse disorders, Mental Retardation, Hospital Psychiatry, Community Mental Health, Child and Adolescent Psychiatry, Adult Attention Deficit/Hyperactivity Disorder, Women’s Mental Health Issues, Geriatric Psychiatry, Forensic Psychiatry, Psychotherapy, and other topics by arrangement.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
<td>24</td>
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<tr>
<td>Didactic conferences</td>
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</tr>
<tr>
<td>Independent learning</td>
<td>10</td>
</tr>
<tr>
<td>Research project</td>
<td>6</td>
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<tr>
<td>Independent patient care</td>
<td>0</td>
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<tr>
<td>Grand Rounds</td>
<td>1</td>
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</table>
PSYC-722  Basic Psychotherapeutic Interventions in Medicine and Mental Health  
Drs. Aly Hassan and Imad Alsakaf  
Periods Offered: Each four weeks  
Student Limit: By arrangement  

Students will learn and perform, under supervision, basic psychotherapeutic interventions that include mainly CBT, motivational interviewing, and relaxation with emphasis on tobacco cessation, substance abuse, medication compliance, depression and anxiety disorders. The course targets acquiring specific skills including therapy techniques, planning and applications.

PSYC-740  Consultation Liaison Psychiatry  
Dr. Sharma  
Periods Offered: Each four weeks  
Student Limit: 1  

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, daily rounds, case conferences and liaison with other medical staff in the emergency room and general hospital setting are all part of this elective.

Activity                          Hours/Week
Rounds                           30
Didactic conferences             5
Independent learning             0
Research project                 0
Independent patient care         10
Multidisciplinary Meeting        1
Grand Rounds                     1

PSYC-741  Geriatric Psychiatry  
Drs. Magnuson, Roccaforte and Wengel  
Periods Offered: Each four weeks  
Student Limit: By Arrangement  

This elective can be tailored to the need of the student, whether it is for research or for clinical experience, which takes place in inpatient, outpatient and consultation/liaison settings. Readings, case conferences, journal club and geriatric assessment center experience are all part of this elective.

Activity                          Hours/Week
Rounds                           20
Didactic conferences             2
Independent learning             12
Research project                 0
Independent patient care         10
Grand Rounds                     1

PSYC-760  Off-Campus Psychiatry Elective  
Student Limit: By Arrangement with Dr. Howard Liu / Stephanie Hansen  

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. Liu. 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

For any questions regarding Radiology electives, please contact Tina Hunter.

RADI-720 Diagnostic Radiology
Periods offered: Each four weeks EXCEPT December
This elective is NOT offered during the month of December.
Student Limit: 12
Where to Report: Room 1500 (Hunt Conference Room) at 8:30 a.m.
Students will be notified by letter 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 – Dr. Jordan Hankins
Periods Offered: Must meet with faculty and given approval prior to elective
Student Limit: 1
Where to Report: University Hospital, 1st Floor – Nuclear Medicine Reading Room

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 – Dr. Joseph McBride
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Contact Tina Hunter in the Department of Radiology.

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

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: Phil Bruch
402-552-3867

RADI-722 Radiation Therapy
Periods Offered: Each four weeks
(may be extended an additional four weeks by permission)
Student Limit: 2 per section
Where to Report: Dr. Charles Enke, Radiation Oncology, The Nebraska Medical Center-Ground 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.

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

Chair/David W. Mercer, M.D.
Wendy Grant, M.D./Director of Student Education
Beverly Vaughn, Student Coordinator, 402-559-4718
Room 4536 MSB

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.

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.

Please see the following person to arrange each elective:

SURG-710  Beverly Vaughn (Surgery)
SURG-720  Beverly Vaughn (Surgery)
SURG-721  Beverly Vaughn (Surgery)
SURG-722  Beverly Vaughn (Surgery)
SURG-725  Beverly Vaughn (Surgery)
ALL SURGERY ELECTIVES MUST BE PRE-ARRANGED.

**SURG-708** Primary clerkship (required in third year)
Periods Offered: Every 8 weeks  
Student Limit: 20  
Semester Hours: 8

The third year students will have an eight-week required clerkship in Surgery. The clinical structure of the rotation is 4 two-week rotations on surgical services. These include, but are not limited to, general surgery and its subspecialties, orthopaedic surgery, neurosurgery, urology, ophthalmology and otolaryngology/head and neck surgery. The rotations will take place at any of the following locations – UNMC/NMC, VA Medical Center, Methodist Hospital and Children’s Hospital and Medical Center. Some rotations may offer opportunities to see patients at other facilities in Omaha, depending on the practice of the providers. Students will participate in three (3) dedicated educational days where there will be didactic lectures and time for computerized modules that cover core areas of surgery.

Evaluation and grades will be based on clinical assessments, an oral exam and performance on the NBME Subject Examination in Surgery.

**SURG-710** Plastic Surgery  
Dr. Ronald Hollins  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Check with Beverly Vaughn Room 4536 MSB

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.

**SURG-720** Urology  
Periods Offered: Each four weeks  
Student Limit: By Arrangement  
Where to Report: Check with Beverly Vaughn Room 4536 MSB

Students are active participants in the team caring for patients. Students will be exposed to genito-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.

**SURG-721** Surgical Skill Immersion Course  
Dr. Wendy Grant  
Periods Offered: April ONLY  
Student Limit: 10  
Where to Report: Check with Beverly Vaughn Room 4536 MSB
This four week elective offered at the end of the fourth year is geared towards students who are pursuing a career in a surgical specialty. 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. There will be exposure to common clinical problems that the student can expect to face when they start as an intern. There will be time dedicated to development of time management skills, communication skills, handover skills and discussion about balancing professional and personal demands. There will be some time spent focusing on core pathophysiology topics. There will be mentorship from surgical faculty and residents. There will be education from nursing, pharmacy and other allied health professionals.

SURG-722  Pediatric Surgery  
Drs. Raynor, Cusick, Abdessalam, Azarow  
Periods Offered: Each four weeks  
Student Limit: 2  
Where to Report: Students should make arrangements with the assigned physician and Beverly Vaughn in the Department of Surgery.

On the pediatric surgical service we would like students to consider the physiology, pathology and surgical care of a variety of surgical problems. We expect them to work-up, scrub and make rounds on as many patients as they can. There will be at least one case presentation at our weekly conference for each student.

SURG-725  Cardiac Surgery  
Periods Offered: Each four weeks  
Student Limit: 1 – Drs. John Um, Kim Duncan and James Hammel  
Where to Report: Students should make arrangements with the assigned physician and Beverly Vaughn in the Department of Surgery.

During this elective, the student will function as a sub-intern. They will participate in the pre-operative evaluation of cardiac 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 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 a familiarity with pharmacological agents utilized in the care of these patients.

The student will be expected to be available for daily rounds, cath conferences, elective and occasionally emergency operations. Overnight on-call with the senior surgical resident on the service would be beneficial.

SURG-726  Oral Surgery  
Dr. Leon Davis  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Students should make arrangements with Dr. Leon Davis and Beverly Vaughn in the Department of Surgery.

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

SURG-727  Thoracic Surgery  
Periods Offered: Each four weeks  
Student Limit: 1 – Drs. Lackner and Trujillo  
Where to Report: Students should make arrangements with the assigned physician and Beverly Vaughn in the Department of Surgery.
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 evaluating 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.

The student will be expected to be available for daily rounds, cath conferences, elective and occasionally emergency operations. Overnight on-call with the senior surgical resident on the service would be beneficial.

**SURG-728  General Surgery in Affiliated Hospitals**  
**Periods Offered:** Each four weeks  
**Student Limit:** (1 per service)  
**Where to Report:** Students should make arrangements with the assigned physician and Beverly Vaughn in the Department of Surgery.

Services:  
Methodist: Drs. Rose, Reilly, Winterstein, Buda, Dirrick  
Methodist: Drs. Waltke, Baxter, Wattenhofer

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 UNMC and Omaha VA**  
**Periods Offered:** Each four weeks  
**Student Limit:** 5 (1 each on UH 1, 2, and 3) and (1 OVAMC and Trauma/ICU)  
**Where to Report:** Check with Beverly Vaughn in the Department of Surgery

This elective is recommended to students interested in a more in-depth exposure to general surgery. Any student wishing to select this elective must contact one of the attending staff on the service and obtain their approval. The attending will then act as the student preceptor during the rotation.

Students will be expected to function as sub interns on the service, including the pre- and post-operative management of patients and the taking of first call in the hospital for the service under the direct supervision of their chief resident. The student will be expected to be an active participant in the operating room, outpatient clinic and emergency room. The student will meet at least weekly with one of the attending staff on an individual basis, at which time they will be responsible for discussing either a specific aspect of surgical management or reviewing some interesting case. The student will be responsible for preparing a clinical conference for formal presentation to all members of their team.

**SURG-730  Transplantation Surgery (Liver and Kidney)**  
**Periods Offered:** Each four weeks  
**Student Limit:** 1 each  
**Where to Report:** Check with Beverly Vaughn Room 4536 MSB

This elective is available 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, small bowel, kidney and pancreatic transplant.
In addition, all general surgical procedures on transplant patients and hepato-biliary 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-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.

**SURG-738 Neurosurgery**  
**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Kellie Devney, Room 4140 UNH  
This elective offers the student experience with respect to diagnosis, treatment and management of patients with neurological surgical disease under close supervision of the faculty.

**SURG-740 Preceptorial Neurosurgery**  
**Periods Offered:** Each four weeks  
**Student Limit:** 1 per service  
**Where to Report:** Kellie Devney, Room 4140 UNH  
Members of the clinical faculty of the Division of Neurosurgery offer preceptorial elective clerkships for students. Four services are available, one each with:

- Drs. George Greene, John Hain and Ric Jensen, Omaha
- Drs. Leslie Hellbusch, Steve Doran, Keith Lodhia, Douglas Long, Mark Puccioni, Wendy Spangler, John Treves, Bradley Bowdino and Guy Music, Omaha
- Drs. Eric Pierson, Benjamin Gelber, Christopher Kent and Daniel Tomes, Lincoln
- Drs. A. Badejo and Ramon Salumbides, Kearney

Prior arrangements must be made with the physician involved and approved after an interview with the Section of Neurosurgery. A student evaluation of the elective will be required upon completion of the elective.

**SURG-760 Off-Campus Surgery**  
**Periods Offered:** Each four weeks  
**Student Limit:** By Arrangement – Please contact Beverly Vaughn in the Department of Surgery  
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. An Off-Campus Elective Application form must be submitted for this experience. The primary concern is to identify a
Many members of the active faculty have indicated a willingness to share a preceptorial clerkship with a student. The list of faculty is maintained in the Department of Surgery. This involves surgeons on our faculty in active practice in Council Bluffs, O’Neill, Lincoln, Kearney, Scottsbluff and Omaha and can be arranged with the member of the faculty and certified by the Department of Surgery. Positions are available at Lincoln Veterans Administration Hospital. Bear in mind that each member of the faculty will set their own individual student limit.

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

**SURG-790  Surgery Research**  
Periods Offered: By Arrangement  
Student Limit: By Arrangement – please contact Beverly Vaughn in the Department of Surgery

This 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.

**SURG-799  Neurosurgery Research**  
Periods Offered: Each four weeks  
Student Limit: By Arrangement  
Where to Report: Kellie Devney, Room 4140 UNH

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.
### SAMPLE WORKSHEET

<table>
<thead>
<tr>
<th>MONTH</th>
<th>FIRST CHOICE</th>
<th>SECOND CHOICE</th>
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<tbody>
<tr>
<td>JUL 2012</td>
<td>PEDS-728 Newborn Medicine</td>
<td>NONE NEEDED PRE-ARRANGED</td>
</tr>
<tr>
<td>AUG 2012</td>
<td>IMED-720 Adult Cardiology</td>
<td>IMED-726 Infectious Disease</td>
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<tr>
<td>SEP 2012</td>
<td>SURG-730 Transplantation</td>
<td>NONE NEEDED PRE-ARRANGED</td>
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<td>OCT 2012</td>
<td>IMED-724 G.I.</td>
<td>IMED-722 General Medicine</td>
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<td>NOV 2012</td>
<td>ANES-720 Anesthesia</td>
<td>NONE NEEDED PRE-ARRANGED</td>
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<tr>
<td>DEC 2012</td>
<td>IMED-751 Rheumatology</td>
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<tr>
<td>JAN 2013</td>
<td>VACATION</td>
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<tr>
<td>FEB 2013</td>
<td>M-ID-711 Anatomic Dissection</td>
<td>NONE NEEDED PRE-ARRANGED</td>
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<tr>
<td>MAR 2013</td>
<td>OPHT-720 Rheumatology</td>
<td>IMED-727 Renal</td>
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<tr>
<td>APR 2013</td>
<td>M-ID-710 ICE Senior Seminar</td>
<td>NONE NEEDED PRE-ARRANGED</td>
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RETURN WORKSHEET TO SUE POPE BY FRIDAY, MARCH 23, 2012