University of Nebraska Medical Center
College of Medicine

SENIOR ELECTIVE HANDBOOK

2006-2007
Address Inquiries to:

Sue Pope, Program Coordinator
Office of Admissions and Students
University of Nebraska College of Medicine
986585 Nebraska Medical Center
Omaha NE 68198-6585
402-559-4169 or 1-800-626-8431
spope@unmc.edu

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

Jeffrey W. Hill, M.D.
Associate Dean for Admissions and Students
jwhill@unmc.edu

Gerald F. Moore, M.D.
Associate Dean for Curriculum
gfmoore@unmc.edu

Gigi Rogers, B.S.
Program Coordinator, Office of Admissions and Students
grogers@unmc.edu

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

Jackie O'Hara
Staff Assistant, Office of Admissions and Students
johara@unmc.edu

Web Address: http://www.unmc.edu/UNCOM/
February 2006

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University of Nebraska College of Medicine
2006-2007 Academic Year

SEMMETERS
First Semester (M3-M4)   July 3, 2006 – December 15, 2006
Second Semester (M4)   January 2, 2007 – April 29, 2007

SENIOR ELECTIVE PERIODS
August 2006    July 31, 2006 – August 27, 2006
October 2006   September 25, 2006 – October 22, 2006
November 2006  October 23, 2006 – November 19, 2006
April 2007     April 2, 2007 – April 29, 2007
Commencement  May 5, 2007

RECESSES AND HOLIDAYS
Independence Day    July 4, 2006 (Tuesday)
Labor Day    September 4, 2006 (Monday)
Thanksgiving (M3-M4)  November 23, 2006 (Thursday)
Thanksgiving (M1-M2)  November 23, 2006 – November 24, 2006
New Year’s Day  January 1, 2007 (Monday)
Martin Luther King, Jr.  January 15, 2007 (Monday)
Spring Recess (M3-M4)  March 26, 2007 – April 1, 2007
Memorial Day  May 28, 2007 (Monday)
Summer Recess (M3)   June 25, 2007 – July 1, 2007

SPECIAL EVENTS
First Year Orientation   August 14, 2006 – August 18, 2006
White Coat Ceremony (M1)  August 18, 2006 (Friday)
FIRST DAY OF CLASS (M1-M2)   August 21, 2006
Honors Convocation (M4)  May 4, 2007 (Friday)
Commencement (M4)   May 5, 2007 (Saturday)
CORE EXAMS (M1-M2)   T.B.A. (Announced by ESO Office)
CLASS OF 2008 – JUNIOR YEAR ROTATION SCHEDULE

<table>
<thead>
<tr>
<th>PERIOD NUMBER</th>
<th>DATES OF PERIOD</th>
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<tr>
<td>INDEPENDENCE DAY *</td>
<td>July 4, 2006 (Tuesday)</td>
</tr>
<tr>
<td>PERIOD 01</td>
<td>July 3, 2006 – July 16, 2006</td>
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<td>PERIOD 02</td>
<td>July 17, 2006 – July 30, 2006</td>
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<td>PERIOD 03</td>
<td>July 31, 2006 – August 13, 2006</td>
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<td>PERIOD 04</td>
<td>August 14, 2006 – August 27, 2006</td>
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<td>September 25, 2006 – October 8, 2006</td>
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<td>PERIOD 08</td>
<td>October 9, 2006 – October 22, 2006</td>
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<td>PERIOD 09</td>
<td>October 23, 2006 – November 5, 2006</td>
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<td>PERIOD 10</td>
<td>November 6, 2006 – November 19, 2006</td>
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<tr>
<td>PERIOD 11</td>
<td>November 20, 2006 – December 3, 2006</td>
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<td>THANKSGIVING</td>
<td>November 23, 2006 (Thursday)</td>
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<td>PERIOD 12</td>
<td>December 4, 2006 – December 15, 2006  **</td>
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<tr>
<td>** SERVICE ENDS ON FRIDAY</td>
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<tr>
<td>PERIOD 13</td>
<td>January 2, 2007 - January 14, 2007</td>
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<tr>
<td>MARTIN LUTHER KING, JR.</td>
<td>January 15, 2007 (Monday)</td>
</tr>
<tr>
<td>PERIOD 17</td>
<td>February 26, 2007 – March 11, 2007</td>
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<td>PERIOD 18</td>
<td>March 12, 2007 – March 25, 2007</td>
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<tr>
<td>SPRING RECESS</td>
<td>March 26, 2007 – April 1, 2007</td>
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<td>PERIOD 19</td>
<td>April 2, 2007 – April 15, 2007</td>
</tr>
<tr>
<td>PERIOD 20</td>
<td>April 16, 2007 – April 29, 2007</td>
</tr>
<tr>
<td>PERIOD 21</td>
<td>April 30, 2007 – May 13, 2007</td>
</tr>
<tr>
<td>PERIOD 22</td>
<td>May 14, 2007 – May 27, 2007</td>
</tr>
<tr>
<td>MEMORIAL DAY</td>
<td>May 28, 2007 (Monday)</td>
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Scheduling Instructions

Requirements for Graduation (Class of 2007) 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)
8 or 9 months of electives during the senior year
Senior Selective (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 Students.

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 Students.

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 3054 Wittson Hall during the hours designated below:

Monday through Friday: 9:00 a.m. – 11:00 a.m. and 2:00 p.m. – 4:00 p.m.

February 2006:
You will receive the 2006-2007 Elective Handbook. 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.

March 2006:
Deadline for returning worksheet to Sue Pope:
Friday, March 24, 2006

May 2006:
You will receive a tentative schedule in your student mailbox. Individual conferences will be held to finalize schedules, if necessary.

June 2006:
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 Students, 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
David Baxter, M.D.
Tara Brakke, M.D.
Ricardo Cardenas, M.D.
James W. Chapin, M.D.
Chris Criscuolo, M.D.
Denis J. Cuka, M.D.
Sheila Ellis, M.D.
David Faust, M.D.
Michael P. Fee, M.D.
Jenny Geracci, M.D.
Scott Hofmann, M.D.
Barbara J. Hurlbert, M.D.
Myrna C. Newland, M.D.
Huiling Pang, M.D., Ph.D.
K. Reed Peters, M.D.
Angie Rakes, M.D.
Ellen Roberts, M.D.
Nancy Rogic, M.D.
Jean Simonson, M.D.
John Tinker, M.D.

DERMATOLOGY (SECTION OF) – INTERNAL MEDICINE
Ramon Fusaro, M.D.
Kristie Hayes, M.D.
Shashi Srinivasan, M.D.

EMERGENCY MEDICINE (SECTION OF) – SURGERY
Kristine Bott, M.D.
Kenneth Colaric, M.D.
Lance Hoffman, M.D.
Timothy Larsen, M.D.
James McClay, M.D.
J. Pat McMahon, 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.
Robert Bowman, M.D.
Kaye Carstens, M.D.
Suzanne Cornwall, M.D.
Tina Flores, M.D.
Dennis P. Goeschel, M.D.
Daniel Halm, 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.
James Stageman, M.D.
Douglas Wheatley, M.D.

INTERNAL MEDICINE
Joel Bessmer, M.D.
Philip Bierman, M.D.
James Campbell, M.D.
Gay Canaris, M.D.
Julie Fedderson, M.D.
Anthony Floreani, M.D.
William Haire, 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.
Jane Potter, M.D.
Elizabeth Reed, M.D.
Debra Romberger, M.D.
Daniel Schafer, M.D.
Lance Schupbach, M.D.
Rob Schwab, 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.

NEUROLOGY
Pierre Fayad, M.D.
Pierre Giglio, M.D.
Agapito Lorenzo, M.D.
Daniel Murman, M.D.
Sanjay Singh, M.D.
Pariwat Thaisetthawatkul, M.D.

NEUROSURGERY (SECTION OF) – SURGERY
Bradley Bowdino, M.D.
Stephen Doran, M.D.
Kenneth Follett, M.D.
Les Hellbusch, M.D.
Peter Lennarson, M.D.
Douglas Long, M.D.
Angelo Patil, M.D.
Mark Puccioni, M.D.
Wendy Spangler, M.D.
William Thorell, M.D.
John Treves, M.D.

OBSTETRICS AND GYNECOLOGY
Neena Agarwala, M.D.
N. Jean Amoura, M.D.
Teresa G. Berg, M.D.
Diane Curran, M.D.
Lloyd Holm, M.D.
Sonja R. Kinney, M.D.
Robert C. Olesh, M.D.
Steven W. Remmenga, M.D.
Carl V. Smith, M.D.
Marvin L. Stancil, M.D.
Paul G. Tomich, M.D.

OPHTHALMOLOGY
Carl B. Camras, M.D.
Frank Graf, O.D.
Patti Fries, O.D.
John Halgren, M.D.
Thomas W. Hejkal, M.D., Ph.D.
Sharon Lynch, M.D.
Eyal Margalit, M.D., Ph.D.
Richard Tamesis, M.D.

**ORAL SURGERY (SECTION OF) – SURGERY**
Leon Davis, D.D.S., M.D.
Michael J. Miloro, D.M.D., M.D.

**ORTHOPAEDIC SURGERY AND REHABILITATION**
Paul W. Esposito, M.D.
Edward V. Fehringer, M.D.
Kevin L. Garvin, M.D.
Glen M. Ginsburg, M.D.
Hani Halder, Ph.D.
Brian Hasley, M.D.
Sean McGarry, M.D.
Matthew A. Mormino, M.D.
Fereydoon Namavar, Sc.D.
N. Ake Nystrom, M.D., Ph.D.
Lori K. Reed, M.D.
Susan A. Scherl, M.D.
Todd A. Sekundiak, M.D.

**OTOLARYNGOLOGY – HEAD AND NECK SURGERY**
Barbara M. Heywood, M.D.
William Alan Ingram, M.D.
Donald Leopold, M.D.
Daniel D. Lydiatt, D.D.S., M.D.
William M. Lydiatt, M.D.
Gary G. Moore, M.D.
Anthony J. Yonkers, M.D.

**PATHOLOGY AND MICROBIOLOGY**
Neil Abrahams, M.D.
Patricia Aoun, M.D.
Dominick DiMaio, M.D.
James Landmark, M.D.
Sam Pirruccello, M.D.
James Wisecarver, M.D., Ph.D.

**PEDIATRICS**
David Bolam, M.D.
Bruce Buehler, M.D.
Peter Coccia, M.D.
John Colombo, M.D.
David Finken, M.D.
Alfred Grovas, M.D.
Carl Gumbiner, M.D.
James Harper, M.D.
John Kugler, M.D.
Amy LaCroix, M.D.
Paul Larsen, M.D.
Sheryl Pitner, M.D.
G. Bradley Schaefer, M.D.
Sharon Stoolman, M.D.
John Walburn, M.D.

PEDIATRIC SURGERY (SECTION OF) – SURGERY
Robert Cusick, M.D.
Stephen Raynor, M.D.

PSYCHIATRY
Matthew Egbert, M.D.
Carl Greiner, M.D.
Mary Jo Hanigan, M.D.
Thomas Magnuson, M.D.
William Roccaforte, M.D.
Steven Wengel, M.D.

RADIATION ONCOLOGY
Charles A. Enke, M.D.

RADIOLOGY
Jud Gurney, M.D.
Mary Kay Drake, M.D.
Jean A. Saigh, M.D.
Craig W. Walker, M.D.

SURGERY
Mark Carlson, M.D.
James Edney, M.D.
Ira Fox, M.D.
Jason Johanning, M.D.
Rudy Lackner, M.D.
Alan Langnas, D.O.
Thomas Lynch, M.D.
Matthew Longo, M.D.
Corrigan McBride, M.D.
Iraklis Pipinos, M.D.
Aaron Sasson, M.D.
Byers Shaw, M.D.
Victor Sorensen, M.D.
Joseph Stothert, M.D.
Debra Sudan, M.D.
Jon Thompson, M.D.

**UROLOGY (SECTION OF) – SURGERY**
K.C. Balaji, M.D.
John Donovan, M.D.
George P. Hemstreet, III, M.D., Ph.D.
Laurence Kandel, M.D.

-----------------------------------------------

**RESIDENCY CAREER ADVISORS**

**ANESTHESIOLOGY**
James Chapin, M.D.
Barbara J. Hurlbert, M.D.
K. Reed Peters, M.D.
John Tinker, M.D.

**DERMATOLOGY**
Kristie Hayes, M.D.

**EMERGENCY MEDICINE**
Kristine Bott, M.D.
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Robert Muelleman, M.D.
T. Paul Tran, M.D.
Michael Wadman, M.D.
Richard Walker, M.D.
Wes Zeger, D.O.

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Daniel Halm, M.D.
Jeffrey Harrison, M.D.
Monty Mathews, M.D.
Jim Medder, M.D.
Paul Paulman, M.D.
Michael Sitorius, M.D.
James Stageman, M.D.
Douglas Wheatley, M.D.
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Brian Hasley, M.D.
Sean McGarry, M.D.
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Leslie Bruch, M.D.
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Jose Romero, M.D.
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Terence Zach, M.D.

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Thomas Magnuson, M.D.
William Roccaforte, M.D.
Steven Wengel, M.D.

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**RADIOLOGY**
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Mary Kay Drake, M.D.
Jean A. Saigh, M.D.
Craig W. Walker, M.D.

SURGERY
Mark Carlson, M.D.
James Edney, M.D.
Byers Shaw, M.D.
Joseph Stothert, M.D.
Debra Sudan, M.D.
Jon Thompson, 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.
5. Return completed worksheet to Sue Pope by March 24, 2006.

ELECTIVE LISTS

ANESTHESIOLOGY
Anesthesiology
Newborn Medicine
Adult Cardiology
Pediatric Cardiology
General Medicine
Diabetes, Endocrine and Metabolism
Emergency Medicine
Otolaryngology
Adult or Pediatric Pulmonary
Clinical Pathology
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**
Extended Rural Preceptorship
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
Dermatology
Ambulatory Psychiatry
Ambulatory Gynecology
Otolaryngology
Ophthalmology
Family Medicine Inpatient Rotation
Ambulatory Surgery electives
Ambulatory Internal Medicine electives
Ambulatory Pediatric electives

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

**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**
Advanced Outpatient OB-GYN
Anesthesiology
Diabetes, Endocrine and Metabolism
Hematology/Oncology
Advanced Inpatient OB
Newborn Medicine
Adult Intensive Care
Nephrology
Urology

**OPHTHALMOLOGY**
Emergency Room
Dermatology
Adult Cardiology
General Medicine
Neurology
Ophthalmology
Otolaryngology
Clinical Pathology
Pediatrics (any elective)
Radiology

**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
Dermatology
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
Dermatology
Infectious Disease
Hematology/Oncology
Neurology
Obstetrics & Gynecology (any elective)
Pathology (any elective)
Clinical Pathology
Pediatrics (any elective)
Radiology
Surgery (any elective)

PEDIATRICS
Anesthesiology
Internal Medicine (any elective)
Otolaryngology
Clinical Pathology
Pediatrics (any elective)
Psychiatry (any elective)
Radiology
Pediatric Surgery

PSYCHIATRY
Pain Management
Diabetes, Endocrine & Metabolism
Family Medicine or Internal Medicine
Pediatric Neurology or Developmental Pediatric Practicum
Neurosurgery
Radiology
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
MICU
Adult Cardiology
Adult Gastroenterology
Infectious Disease
Surgical Pathology
Radiology
Pediatric Surgery
General Surgery
Surgery Preceptorship
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 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 Students 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 Students (Sue Pope) 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.
OFF-CAMPUS ELECTIVES

The 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.

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. (Note: Two forms must be filled out and signed prior to the off-campus experience).

APPROVAL to pursue an off-campus experience must be approved by your advisor and the appropriate department. The department will usually have knowledge about the quality of teaching programs at many institutions. Accordingly, they can appropriately counsel students in making their selection. If there is prior preference for a specific site for an elective, the student should be prepared to justify the selection. The “Pre-Approval Form” must be signed and presented to the Office of Admissions and Students before any further paperwork will commence.

IF the department approves the selection(s), the student may make formal application to the off-campus institution. Upon receipt of the “Pre-Approval Form” in the Office of Admissions and Students, the student will be given an “Application for Off-Campus Elective” form to complete in its entirety. The student must be in good academic standing as determined by the Office of Admissions and Students. Section I and Section II of the form must be completed prior to return to the Office of Admissions and Students. Please supply complete information on the form!

UPON receipt of the completed off-campus form, the Office of Admissions and Students 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:
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 Students.

Compliance with these guidelines will ensure efficient handling of your requests.
A P P R O V A L F O R M T O P U R S U E O F F – C A M P U S E L E C T I V E

Student Name: ____________________________________________________________________ (Please print)

Dear Doctor:

I am a medical student interested in pursuing an off-campus elective in:

____________________________________________________________________________________

(Name of elective; i.e. Cardiology, Neurology, etc.)

At the institution named below:

____________________________________________________________________________________

(Name and address of institution)

I have NOT made contact with them yet and need your approval to pursue this opportunity. My reasons for pursing this elective opportunity are stated below:

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

If you approve of this experience, please sign below and I will this form to the Office of Admissions and Students which will allow me to further pursue this experience. I understand that upon your approval and the approval of the off-campus institution, I must complete the “Application for Off-Campus Elective” form which I will obtain from the Office of Admissions and Students.

Student Signature

I APPROVE OF THIS ELECTIVE EXPERIENCE FOR THE STUDENT NAMED ABOVE:

____________________________________________________________________________________

Department Signature                                           Advisor’s Signature

Date                                                      Date

THE STUDENT MUST RETURN THIS FORM SIGNED BEFORE THE “APPLICATION FOR OFF-CAMPUS ELECTIVE” FORM WILL BE GIVEN TO THE STUDENT.
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 Students. **This form must be completed before the student leaves campus.**

Student Name: _____________________________________ Mailbox # in WH ______________

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 Students)

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 Students)

Date: ___________________________________________________________________

Copies to: _____ UNMC Sponsoring Department _____ Host Institution
 _____ UNMC Student _____ UNCM 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 four weeks of a Senior Selective, all students must take a minimum of eight (8) four-week rotations from the elective lists. Nine (9) months of electives 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.

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 Simulator
A minimal competency examination with a patient simulator during the junior internal medicine rotation is required.

OSCE
An Objective Structured Clinical Examination (OSCE) is required to be taken and passed during your 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.

During the senior year, you will be required to perform an Objective Structured Clinical Examination (OSCE). The initial screening OSCE is six cases long. Inadequate performance on the screening OSCE will result in an evaluation done by performing a full, 16 case OSCE. The cases cover all areas (emergency medicine, surgery, pediatric, obstetric, psychiatric, and medicine) of ambulatory care.

You will be scheduled for the test sometime on a Saturday 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.

**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 notify the clinical departments about planned absences. The form to be used is available from the Office of Admissions and Students. The form must be completed at least two weeks in advance of your intended absence. If you have any questions regarding release time, please call the Office of Admissions and Students.
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 should be sent to the Office of Admissions and Students.

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

Student Name and Home Address
Name of Medical School
Area of Interest
Dates available for elective

A written response will include the following:

Copy of Elective Handbook or appropriate sections
Copy of current Academic Calendar
Medical Student Application Form for the elective

The application forms requires documentation that:
The student is in good academic standing at their institution.
The student has completed all basic science courses and required junior clerkship prior to the elective.
The student must be at the senior 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 Students 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.
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.

How many electives do you want to be accepted for? __________
(Absolute maximum is 3 months at UNMC)

Please list elective courses 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>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

If prerequisite in the elective handbook states prior arrangement is necessary, the Office of Admissions and Students will contact the department involved.

**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:  _____________________________________________
FAX Number:  _____________________________________________

Date of Application: _________________________________________

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

_____ Student Copy

_____ UNMC Office of Admissions & Students (file copy)

RETURN COMPLETED APPLICATION TO:

Sue Pope, Program Coordinator
Office of Admissions and Students
U of Nebraska College of medicine
986585 Nebraska Medical Center
Omaha, Nebraska  68198-6595

Phone:    402-599-4169
FAX:    402-559-6840
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 unless otherwise indicated.
ANESTHESIOLOGY

Chair – John H. Tinker, M.D.
Student Clerkship Coordinator – Barbara J. Hurlbert, M.D.
Curriculum Clerk – Melinda Murdock
2015 Bennett Hall
402-559-4081

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 (559-4081)

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>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3 per week for 4 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-734  Pain Management
Dr. Chris Criscuolo
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  All students will be notified via campus mail or e-mail one week prior to orientation of starting time and place of rotation.
Contact Person:  Melinda Murdock (559-4081)

This elective offers the student exposure to an interdisciplinary treatment facility for chronic pain that cannot be treated medically or surgically. Students will have an
opportunity to learn about biofeedback, individual psychotherapy and group counseling, exercise, physical therapy, medication withdrawal and neurological issues as provided by the Section of Neurosurgery and the Department of Anesthesiology.

<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>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care/clinic</td>
<td>25</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 (559-4081)

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**

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.

Please contact Melinda Murdock (559-4081) if you have questions regarding this elective.
FAMILY MEDICINE

Chair – Michael Sitorius, M.D.
Junior Clerkship Director – Paul Paulman, M.D.
Curriculum Clerk – Barbara Goodman
Room 3029 SSP Building
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 about a community health project is required. 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-720  Family Health Center – Durham Outpatient Clinic
Dr. Douglas Wheatley and Staff
Periods Offered:  Every month except July
Student Limit:  1
Where to Report:  Family Health Center

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.

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

FMED-722  Family Health Center – Summit Plaza Clerkship
Dr. Dan Halm and Staff
Periods Offered:  Every month except July
Student Limit:  1
Where to Report:  Summit Plaza (36th and Highway 370)

A clinical experience at the University satellite clinic located at 36th Street and Highway 370. Covers all clinical areas. Full-time and volunteer faculty.

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

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)
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.

<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>Research project</td>
<td>2</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
</tr>
</tbody>
</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 2524 UMA

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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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>8</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>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:** Check with the Department of Family Medicine

**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.

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<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>
Research project 0
Independent patient care 25

**FMED-730  Family Medicine Clerkship**
PRE-ARRANGED THROUGH BARBARA GOODMAN – NOT THROUGH THE FAMILY MEDICINE PROGRAM IN LINCOLN
Periods Offered: Check with the Department of Family Medicine
Student Limit: 2
Where to Report: Medical Staff Office

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).

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>15</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>2</td>
</tr>
<tr>
<td>Research project</td>
<td>1</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>20</td>
</tr>
</tbody>
</table>

**FMED-732  Family Medicine Clerkship – Clarkson Residency Program**
PRE-ARRANGED THROUGH BEV HILBURN (552-2045)
Dr. Roger Massie
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: TBA (via letter)

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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>Approximately 1.5 hours per day</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>3 days per week</td>
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<tr>
<td>Independent learning</td>
<td>Optional</td>
</tr>
<tr>
<td>Research project</td>
<td>No</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Variable – initial contact with supervision</td>
</tr>
</tbody>
</table>
**FMED-733  Rural Training Track**  
PRE-ARRANGED THROUGH BARBARA GOODMAN  
Dr. Jeff Harrison  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: TBA

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>6</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>25-30</td>
</tr>
</tbody>
</table>

**FMED-734  Offutt Air Force Base**  
PRE-ARRANGED THROUGH BARBARA GOODMAN  
Dr. Paul Mueller  
Periods Offered: Each four weeks

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 Ehring 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.

Activity                  Hours/Week
Rounds                     5
Didactic conferences       5
Independent learning       20
Research project           2
Independent patient care   8
Procedures                 10

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.
Activity          Hours/Week
Rounds            1-2
Didactic conferences    2
Independent learning   4
Research project      10
Patient care         20

**FMED-737  Domestic Violence**

**Periods Offered:** Every four weeks

**Staff:** Drs. Paul Paulman and Layne Prest; Sue Michalski, MS, RN – Healthcare Program Director; Domestic Violence Coordinating Council of Greater Omaha

**Student Limit:** 1 per month

This elective must be pre-arranged with Barbara Goodman, Department of Family Medicine, 559-9327.

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  
Staff: Dr. James Medder  
Periods Offered: Every month except July  
Student Limit: 1  
This elective must be pre-arranged with Barbara Goodman, Department of Family Medicine, 559-9327.

The goal of this course is to expand students’ preventive medicine, public health and community health skills and knowledge. Students will study 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  
Staff: Drs. Paulman and Medder  
Periods Offered: Every month  
Student Limit: 1  
This elective must be pre-arranged with Barbara Goodman, Department of Family Medicine, 559-9327.

During this elective, the senior student will serve as assistant administrator during all sharing movement clinics and will attend other underserved clinics with UNMC Family medicine faculty. The student will participate in the management and quality improvement of a student run clinic for the underserved. The student will also attend all Sharing Board meetings and design and complete a clinical quality improvement project mutually agreeable to the student and the Board.

Methods of instruction – 1 to 1 clinical precepting  
Faculty facilitated clinic administration  
Independent research and study with prepared report to Sharing Board.

Students will be expected to attend at least 5 clinic sessions/week in addition to the quality improvement project.

FMED-750 International Health Elective  
PRE-ARRANGED THROUGH BARBARA GOODMAN (402-559-9327)  
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)
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, student will also participate in a brief orientation and debriefing on campus.

**FMED-751  Medical Spanish/International Health/Guatemala**  
**PRE-ARRANGED WITH BARBARA GOODMAN (402-559-9327)**  
**Periods Offered:** See schedule on the IS&P web site: [http://www.unmc.edu/isp](http://www.unmc.edu/isp)  
**Student Limit:** By Arrangement

This course is an immersion Spanish language study with onsite exposure to primary and community health care in Guatemala. Phase I option offers three weeks of language instruction and one week of clinical experience. Phase II option (for more advanced Spanish speakers) offers one week of language instruction and three weeks of clinical work. Both options include lectures and field trips in the curriculum.

Students must submit completed application forms and deposit to reserve a place in the course. Early application is advised. Contact Sara Pirtle in International Studies and programs (402-559-2924) for more information.

**FMED-752 Medical Spanish/Ambulatory Family Medicine**  
**PRE-ARRANGED THROUGH BARBARA GOODMAN (402-559-9327)**  
**Staff:** Dr. Tina Flores  
**Periods Offered:** By Arrangement  
**Student Limit:** By Arrangement  
**Where to Report:** UMA 2590 (Call Dr. Tina Flores to arrange time)

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.*
<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>1</td>
</tr>
<tr>
<td>Independent learning</td>
<td>20</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Patient care</td>
<td>20</td>
</tr>
</tbody>
</table>

**FMED-760  Private Practice Office Clerkship – Omaha**  
**Periods Offered:** Every month  
**Student Limit:** By Arrangement  
**Where to Report:** T.B.A.  

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  

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

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. Klasen, M.D.
Student Clerkship Director/David V. O'Dell, M.D.
Sheila Rosenberg, Student Coordinator
5502 UMA Building
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

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. Cheryl Hinners, 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 Cindy Clark (559-7512)
This elective must be pre-arranged with Cindy Clark.

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.
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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>10</td>
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<tr>
<td>Didactic conferences</td>
<td>3</td>
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<tr>
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<td>5</td>
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<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>10</td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>5</td>
</tr>
<tr>
<td>Nursing Homes</td>
<td>5</td>
</tr>
<tr>
<td>Home care</td>
<td>2</td>
</tr>
</tbody>
</table>

**IMED-712 Dermatology**

This elective must be pre-arranged with Sheila Rosenberg in the Department of Internal Medicine, 559-9386.

**Periods Offered:** Each four weeks

**Student Limit:** 1

**Where to Report:** Refer to the packet of information that will be in your Wittson Hall mailbox on or about the 15th of the month prior to your elective.

Any questions – contact the Dermatology Administrator at 559-4399.

Each student will be supervised by the staff in dermatologic interview, physical diagnosis, topical therapy and cutaneous therapeutic procedures (skin biopsy, cautery, cryotherapy, etc.)

<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>1</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Research project</td>
<td>1</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Clinic</td>
<td>30</td>
</tr>
</tbody>
</table>

**IMED-714 Lincoln/Omaha Dermatology Clerkship**

This elective must be pre-arranged with Sheila Rosenberg in the Department of Internal Medicine, 559-9386.

**Dr. Rex Largen/Lincoln (July and January only)**

**Student Limit:** 1 per physician

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

**IMED-715  Inpatient General Internal Medicine Clerkship – The Nebraska Medical Center (Clarkson)**  
**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 (391-3800)

An inpatient general internal medicine experience.

<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>10</td>
</tr>
<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Private Office</td>
<td>10</td>
</tr>
</tbody>
</table>

**IMED-716  Inpatient General Medicine Clerkship – Methodist**  
**Drs. Lewis and Watson – Methodist Hospital**  
**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Contact Dr. Lewis or Dr. Watson (393-3616)

An inpatient general internal medicine experience.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
</tr>
<tr>
<td>Didactic conferences</td>
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<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>30</td>
</tr>
</tbody>
</table>

**IMED-717  Inpatient MICU Clerkship**  
**Dr. Zetterman and Staff – OVAH**  
**Periods Offered:** Each four weeks  
**Student Limit:** 2  
**Where to Report:** Meet with the Chief Resident of Nebraska Medical Service, Medical TV Room, VA Hospital, 3rd floor, 8:00 a.m.
This clerkship offers opportunity for participation in the management of acutely ill patients, working closely with the intensive care unit junior house officer, supervisory resident and attending physicians.

The experience is enhanced because of frequent consultation with specialty services. The student is also encouraged to participate in the regularly scheduled activities of the medical service.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>50-60</td>
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<tr>
<td>Didactic conferences</td>
<td>Variable</td>
</tr>
<tr>
<td>Independent learning</td>
<td>Many opportunities</td>
</tr>
<tr>
<td>Research project</td>
<td>Variable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Variable</td>
</tr>
</tbody>
</table>

**IMED-720 Adult Cardiology**  
**UNMC – Dr. Windle and Staff**  
**OVAH – Dr. O’Leary and Staff**  
**Periods Offered:** Each four weeks  
**Student Limit:** 8 – UNMC/OVAH  
**Where to Report:** UH 6162 at 8:15 a.m.

UNMC & VA assignments will be made prior to the start of the rotation. Numbers at each site will be kept as even as possible. 

UNMC – Within this clinical cardiology section, the student may choose between two specific areas:

Inpatient – Consultative Cardiology: The student will have significant care responsibilities for patients either on the Inpatient or Consultation Services. These responsibilities will allow daily teaching attending rounds and exposure to laboratory evaluation including electrocardiography, ambulatory monitoring, exercise testing, cardiac catheterization, angioplasty and care of acute myocardial infarction.

Electrophysiology and Electrocardiography: The student may work with the electrophysiology team performing both inpatient and consultative care. This rotation will allow exposure to electrocardiography, ambulatory monitoring, electrophysiologic studies and advanced care of arrhythmias including both drug therapy and implantable devices. In addition to daily teaching rounds, a daily patient review conference and two cardiology didactic conferences are available weekly for both services.

OVAH – A clinical cardiology rotation for medical students has been designed at the Omaha VA Hospital. Students are incorporated as an integral part of the service and work closely with cardiology residents. Students have the opportunity to be personally involved in the diagnosis and treatment or the most frequent and
important cardiac problems. Learning to read electrocardiograms is also an important part of the clerkship.

Opportunities also exist to observe treadmill exercise testing, echocardiography, phonocardiography and cardiac catheterization. Attending cardiologists provide daily comprehensive teaching rounds for students and house officers. Cardiology conferences are held each week. Staffing consists of cardiologists affiliated with both the University of Nebraska Medical Center and Creighton University School of Medicine. Creighton medical students also participate in this rotation. Students may attend cardiology lectures offered at either medical school by attending the conference with a representative from the other school. Completion of the elective should enable the student to function comfortably as an intern when faced with cardiology patients in the Emergency room or on the ward.

**IMED-720A  Adult Cardiology – Immanuel Hospital**

Dr. Sojka and Staff  
**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Report to 3N of Professional Center. Take Procedure Center elevators. Call Pat Caniglia at 572-2627.  
**You must pre-arrange this elective with Sheila Rosenberg in the Department of Internal Medicine, 559-9386.**

Two weeks of inpatient service, including rounding with the attending physician seeing consultations (with supervision), and lectures regarding clinical aspects of cardiology. Two weeks of outpatient clinical cardiology is non-invasive cardiology, covering indications and benefits of non-invasive testing.

**Didactics:** Thrombolytics, congestive heart failure, acute myocardial infarctions, pacing and anti-arrhythmics, Rheumatic heart disease and murmurs, ECG and coronary artery disease, and cardiac rehabilitation and prescription.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>10 hours/week during inpatient service</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>1 hour/week</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4 hours/week</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>10 hours/week during inpatient service</td>
</tr>
<tr>
<td>Clinic</td>
<td>40 hours/week during outpatient service</td>
</tr>
</tbody>
</table>
IMED-722  General Medicine  
Drs. David O’Dell and J. Scott Neumeister  
Periods Offered: July/August/October/November/January  
NOT OFFERED: September/December/March/April/May/June  
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 and problem-solving.  

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>2</td>
</tr>
<tr>
<td>Independent learning</td>
<td>4</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Small Groups</td>
<td>2.5</td>
</tr>
</tbody>
</table>

IMED-723  Diabetes, Endocrine and Metabolism (D.E.M.)  
Drs. Desouza, Lane, Larsen, Mack-Shipman, Goldner and Neumeister  
UNMC/OVAH  
Periods Offered: Each four weeks  
Student Limit: 3  
Where to Report: Room 5576 UMA 8:00 a.m.  

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, and lipid disorders). Both outpatient and inpatient experiences are included, with time for clinical discussions.  

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>3</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>4</td>
</tr>
<tr>
<td>Clinic</td>
<td>20</td>
</tr>
</tbody>
</table>
IMED-724  Gastroenterology  
UNMC - Dr. Mailliard and Staff  
OVAH - Dr. Mukherjee and Staff  
Periods Offered: Each four weeks  
Student Limit: 2 (1/UNMC, 1/OVAH)  
Where to Report: Call Michelle at 559-4356, before the rotation begins. She will give you the name and pager for the attending and fellow on the service. Please page them on the first day.

This elective in Gastroenterology and Hepatology emphasizes the application and correlation of the basic science principles of physiology, pharmacology, biochemistry and pathologic anatomy in clinical gastroenterology. Active student participation in patient care and involvement in bedside teaching as well as scheduled conferences will be emphasized throughout this elective. There will be one position available at each hospital.

IMED-726 Infectious Disease  
UNMC – Drs. Smith, Rupp, Swindells, Gendelman, Freifeld, Kalil and Jalali  
(Adult ID)  
Periods Offered: Each four weeks  
Student Limit: 2  
Where to Report: UNMC – Call 559-8650 for information

The Infectious Diseases service includes the traditional adult infectious disease consult service at UNMC.

Practical concepts of pathogenesis, diagnosis, treatment and prevention of infections are taught. Students evaluate patients for presentation to the attending staff. A series of formal, one hour didactic sessions on infectious disease topics (e.g. the immune system, clinical microbiology, antibiotics, outpatient infectious disease) are presented each rotation. Conferences include the weekly City-Wide Infectious Diseases Case Conference where the most interesting infectious diseases cases in the Omaha area are presented and discussed. Additional experience in the HIV/AIDS clinic is provided, and students may elect to participate in a private practice ID clinic or in the NHS Wound Center clinic. A packet of basic review articles is provided, and special research projects are available if desired. Elective clinical time may be spent on the private practice infectious disease service at Clarkson or the immuno-compromised host ID service at UNMC.

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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>20</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>4</td>
</tr>
<tr>
<td>Independent learning</td>
<td>6</td>
</tr>
<tr>
<td>Research project</td>
<td>Negotiable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>10</td>
</tr>
</tbody>
</table>
IMED-727  Renal
UNMC – Drs. Groggel, Plumb and Rao
Periods Offered: Each four weeks
Student Limit: 4
Where to Report: UNMC – Contact Glennys at 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 two scheduled conferences every week. By special request, additional students may take the nephrology rotation as a research or basic science reading course under the direction of an individual faculty member.

Activity                  Hours/Week
Rounds                    15
Didactic conferences      3
Independent learning      5
Research project          0
Independent patient care  10

IMED-727A  Renal at The Nebraska Medical Center (Clarkson)
Staff: Drs. Bierman, Fischer, Knight, Lechnowsky, and Neumann
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: 5 South Reception Area/7:30 a.m.

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

Activity                  Hours/Week
Rounds                    20
Didactic conferences      3
Independent learning      2-12
Research project          0
Independent patient care  20
Dialysis                  3
IMED-728  End-of-Life Care: Hands On Experiences
Periods Offered: Each four weeks
Student Limit: 2-3
Dr. Catherine Eberle (559-3965), Dr. Debra Romberger and Dr. William Lyons

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 Palliative Care Consult Team at the Omaha VA Medical Center.
5. An oral presentation (15-30 minutes) on a topic related to hospice and care of the dying is expected. This should be a topic that the student can continue to use in the future to teach others about care of dying patients.

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

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds (Palliative Care at VA)</td>
<td>2-4</td>
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<tr>
<td>Didactic conferences</td>
<td>2</td>
</tr>
<tr>
<td>Independent learning</td>
<td>16</td>
</tr>
<tr>
<td>Oral presentation prep</td>
<td>2</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Home Visits</td>
<td>10</td>
</tr>
<tr>
<td>Site Visits</td>
<td>4</td>
</tr>
<tr>
<td>Hospice Administration</td>
<td>3</td>
</tr>
</tbody>
</table>
IMED-730  Medical Oncology/Hematology  
Drs. Armitage, Bierman, Haire, Kessinger, Reed, Tarantolo, Vose, Bociek, Cowan, Devetten, Grem, Hauke, and Maness  
Periods Offered: Each four weeks 
Student Limit: 4 
Where to Report: Contact Linda Wills at pager 888-3782  
Clinic Contact: Katie Gross at 559-7983  

Because of a shift in emphasis on diagnostic evaluations from the inpatient to the outpatient setting, the Section of Oncology/Hematology now offers a one-month outpatient rotation that emphasizes evaluation and decision-making in these two subspecialty fields. A four-week rotation on the inpatient service continues to be available as well. The student may choose from the available morning and afternoon clinics. The clinics are somewhat subject-oriented and sometimes are conducted simultaneously. Areas from which to select include general oncology, lymphoma, leukemia, breast cancer, lung cancer, coagulation disorders, and gastrointestinal malignancies.

Opportunities to perform special procedures including bone marrow aspiration, bone marrow biopsy, paracentesis and thoracentesis may occur. Core curriculum subjects are also discussed for one hour once or twice a week with residents on the service that the student can attend.

Activity | Hours/Week  
--- | ---  
Rounds | Up to 15  
Didactic conferences | 4-5  
Independent learning | 0  
Research project | If desired  
Independent patient care | Up to 20-30 hours in clinic  

IMED-733  Outpatient Pulmonary Medicine  
UNMC – Dr. Sisson and Staff  
Periods Offered: Each four weeks  
Student Limit: 2  
Where to Report: Room 4003 Swanson Hall, Section of Pulmonary and Critical Care Office, 9:00 a.m.  

The Pulmonary and Critical Care Medicine section offers an elective designed to provide the student with a practical background in Pulmonary Medicine. The students on the service will see hospitalized pulmonary patients; perform pulmonary consultations and follow-up patients in the UNMC Pulmonary Clinic. The course includes experience in the management of both simple and complex pulmonary problems. The students will learn to evaluate patients with a variety of pulmonary disorders including obstructive and occupational lung diseases, sleep disorders, end stage lung disease and diagnostic evaluation of patients with cough, dyspnea or
chest radiographic abnormalities. Additionally, the student will learn interpretation of arterial blood gases and pulmonary function tests. A lecture series on a wide variety of pulmonary issues is a part of this course.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>0</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>3-5</td>
</tr>
<tr>
<td>Clinic</td>
<td>10</td>
</tr>
<tr>
<td>Procedures</td>
<td>3-5</td>
</tr>
</tbody>
</table>

**IMED-734 Introduction to Critical Care Medicine**  
**Drs. Sisson, Piquette and Staff**  
**Periods Offered:** Each four weeks  
**Student Limit:** 3  
**Where to Report:** UH 5th floor, Adult Intensive Care Unit, 8:00 a.m.  
**Contact Delayne Peterson, PAC, Pager 888-1740**

The Pulmonary and Critical Care Medicine Section offers an elective designed to provide the student with a practical background in Critical Care Medicine (CCM). The students are an integral part of the CCM team and are assigned to take care of ICU patients with opportunities to learn interpretation of ventilator and hemodynamic data, and a system-oriented approach to critically ill patient evaluation emphasizing observations made at the bedside. A lecture series and elected required readings on a variety of critical care issues supports the clinical experience.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>22</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>5</td>
</tr>
<tr>
<td>Independent learning</td>
<td>9</td>
</tr>
<tr>
<td>Research project</td>
<td>0</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Procedures</td>
<td>4</td>
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</tbody>
</table>

**IMED-735 Honors Program in Internal Medicine (By Invitation Only)**  
**UNMC Chief Resident, OVAH Chief Resident**  
**Periods Offered:** Each four weeks  
**Student Limit:** 1 per rotation  
**Pre-requisite:** Internal Medicine Required Clerkship with Honors grade  
**Where to Report:** UNMC-UMA 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, 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.

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

**IMED-739 Occupational and Environmental Medicine**

**Drs. Susanna Von Essen and staff**

**Periods Offered:** Each four weeks

**Student Limit:** 2

**Where to Report:** Call Maralee Gifford at 559-4088.

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:

1. Demonstrate knowledge and skill in basic urgent care management of soft tissue injuries including lacerations, musculoskeletal injuries and evaluation of closed head trauma.
2. Verbalize an understanding of the basics of Worker’s Compensation Insurance and apply knowledge to write return-to-work orders including light duty recommendations.
3. Demonstrate ability to conduct a basic physical examination in occupational medicine, including surveillance, pre-placement, “fit for duty” and know the requirements for the Department of Transportation physical. An understanding of the Independent Medical and Disability examinations will be expected.
4. Demonstrate knowledge of basic skills in employee health including adult immunizations, PPD skin testing and interpretations, and TB prophylaxis.
5. Develop knowledge of tissues in Travel Medicine and Immunizations for foreign travel.
7. Participate in job site visits and plant tours in order to gain an understanding of injuries and exposures in the work environment.
8. Learn the value of and participate in case management services in occupational medicine.
9. Describe issues in regional environmental medicine, including indoor air quality, lead and radon exposures.
10. Identify and discuss basic ethical issues in occupational medicine, such as disclosure of risks, confidentiality, conflict of interest, employer contracts and insurance coverage.

<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>6</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>3</td>
</tr>
<tr>
<td>Plant Tours</td>
<td>2</td>
</tr>
</tbody>
</table>

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

**Periods Offered:** Each four weeks  
**Student Limit:** 4

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, Plumsead, 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, 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. Andrew Bohart, M.D., F.A.C.P., Medical Director and Staff  
**Contact Dr. Bohart at 402-486-9092**

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 (fizz-EYE-a-trist) 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 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-742  Elective in Australia**  
Periods Offered: Each four weeks  
Student Limit: 4  
Prerequisite: Internal Medicine Clerkship (IMED-705)  
Questions: Call Sheila Rosenberg (559-9386)

This elective is designed to give students experience in practicing in the unique environment of Australia. The student will gain exposure in the delivery of medicine in different health care systems, including both universal care system and a private sector system. The experience can be individualized to meet the needs of each individual medical student.

Possible options include primary care experiences in general practice or internal medicine; inpatient hospital wards on either general internal medicine or medical subspecialty services (pulmonary, endocrinology, gastroenterology, etc.); and also could include working in an acute care free clinic.

The elective will be based at the Royal Adelaide Hospital, which is the principal teaching hospital in the University of Adelaide system. Students will work along side Australian medical students, house officers and attending faculty.

This experience must be pre-approved and set up through the Internal Medicine Student Education Office. Initial contact person is the Internal Medicine Clerkship Coordinator, Sheila Rosenberg, 559-9386.

**IMED-743  Consultative Medicine**  
Drs. Chad Vokoun, Julie Fedderson and Joel Bessmer  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Call Dr. Vokoun at 559-7299, e-mail: cvokoun@unmc.edu  
This elective must be pre-arranged with Sheila Rosenberg (559-9386)

Students will attend clinic four 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. Mack-Shipman, Larsen, Thierfelder, Agarwala and Amoura  
Off Campus: Sue Michalski, MSRN, Domestic Violence Council  
Periods Offered: Each four weeks  
EXCEPT November, December, January, June and July  
Student Limit: 2  
Where to Report: UNMC – Call 559-6205 for information  
Questions: Call Sheila Rosenberg at 559-9386  

This elective is designed to provide students with an in-depth outpatient clinical experience in dealing with women’s health issues. The student will work one on one with each of the above faculty in the general internal medicine, endocrinology, and gynecology clinics at UNMC and with Sue Michalski, MSRN at the Domestic Violence Coordinating Council here in Omaha. The student will attend 6 half-day clinics each week.

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. Five lectures on women’s health will be provided during the month by the participating faculty. The student will be encouraged to attend scheduled lectures and conferences in general internal medicine, endocrinology, and gynecology.

IMED-751  Rheumatology  
Faculty: Drs. James O’Dell, Lynell Klassen, Gerald Moore, Ted Mikuls and Amy Cannella  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Contact Renee Crosby in the Rheumatology Office, 559-7288  
This elective is pre-arranged through Sheila Rosenberg in the Department of Internal Medicine, 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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<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>6</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>8</td>
</tr>
<tr>
<td>Independent learning</td>
<td>12</td>
</tr>
<tr>
<td>Research project</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>7</td>
</tr>
<tr>
<td>Patient care with attending</td>
<td>7</td>
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</tbody>
</table>
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 during July-December and are usually reserved for students in the Primary Care Program.)  
Where to Report: CCTV Room/VA Hospital, 3rd floor, 8:00 a.m.  
Contact Person: Alissa Marr, Chief Resident, 346-8800 Ext. 3920 or from campus Ext. 8-3920.

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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<thead>
<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>
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<tr>
<td>Independent learning</td>
<td>Many opportunities</td>
</tr>
<tr>
<td>Research project</td>
<td>Variable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>Variable</td>
</tr>
</tbody>
</table>
IMED-766A  General Medicine Subinternship  
Staff at UNMC  
Periods Offered: Each four weeks  
Student Limit: 2  
Where to Report: Chief Resident’s Office, UMA 5515, 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.

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

IMED-798  Internal Medicine Research Elective in Infectious Diseases  
UNMC Staff: Drs. Smith, Rupp, Swindells, Jalali, Gendelman, Kalil and Freifeld (Adult ID)  
Periods Offered: Each four weeks  
Where to Report: Infectious Diseases Secretary (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 such as epidemiological research, chart reviews, laboratory projects or clinical reviews. Any infectious disease related project will be considered under the direction of an ID staff physician.

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

IMED-799  Research in Medicine  
Dr. Klassen and Staff  
Periods Offered: Each four or eight weeks  
Student Limit: By Arrangement
NEUROLOGICAL SCIENCES

Chair/Pierre B. Fayad, M.D.
Student Coordinator/Carol Ern
UT 5248
402-559-8932

NEUR-736 Clinical Neurology Elective
Periods Offered: Each four weeks
Student Limit: 3 – UNMC & OVAH 1 each; 1-The Nebraska Medical Center, 1-Methodist, 1-Lincoln

UNMC – Drs. Fayad, Singh, Giglio, Murman, Thaisetthawatkul
OVAH – Drs. Giglio and Murman
The Nebraska Medical Center – Drs. Goldner, Cooper, Cotton, Sundell and Frankel, Franco
Lincoln – Drs. Birkmann, Bobenhouse, Pattee, Boes, and Puente

Where to Report:
UNMC & OVAH – Room 5248 UH 8:00 a.m.
The Nebraska Medical Center – Contact Dr. Goldner (Ask for Karen 354-8640)
Methodist – Contact Dr. Aita (392-2882)
Lincoln – Contact Dr. Birkmann (402-483-7226)

Students must pre-arrange the following services (The Nebraska Medical Center, Methodist and Lincoln) with the Neurological Sciences Department.

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.

Activity                  Hours/Week
Rounds                     10
Didactic conferences       4
Independent learning       10
Research project           5
Independent patient care   5

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 (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: Dr. Sonja Kinney, UMA 4582
Nicole Bussey/Education Assistant, 4343 UH, 559-6160

OGBY-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 the following clinics; normal and high risk obstetrics, gynecology, gynecologic oncology, and family planning. Seminars, conferences, and ward rounds are scheduled regularly.

OGBY-710 Advanced Outpatient Obstetrics and Gynecology
Sonja R. Kinney, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: UH Room 4343

This elective must be pre-arranged with Nicole Bussey in the Department of Obstetrics and Gynecology, 559-6160.

Obstetrics, gynecologic and specialty clinic experience including Dysplasia, Family Planning and Outreach clinics at North Omaha and SONA. Conferences are held with the faculty to discuss special problem areas in obstetrics and gynecology. This elective does not include participation in inpatient activities.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>0</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>8</td>
</tr>
<tr>
<td>Independent learning</td>
<td>8</td>
</tr>
<tr>
<td>Research project</td>
<td>Dependent upon student participation</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>24-28 (6-7 ½ days in clinic)</td>
</tr>
</tbody>
</table>
OBYG-720  Advanced Inpatient Obstetrics
Paul G. Tomich, M.D.
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  UH 4343

This elective must be pre-arranged with Dr. Tomich and Nicole Bussey.

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.

OBYG-721  Gynecologic Oncology
Steve Remmenga, M.D.
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  UH Room 4343

This elective must be pre-arranged with Nicole Bussey.

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 encouraged during the rotation.

<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>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Outpatient Clinic</td>
<td>16</td>
</tr>
<tr>
<td>Surgery</td>
<td>18</td>
</tr>
</tbody>
</table>

OBYG-724  Tutorial [this course will no longer be available after July 2006]
Clinical Faculty
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  UH Room 4343
By approval only.

This elective must be pre-arranged with Nicole Bussey.
Individuals work in a one-to-one relationship with a full-time faculty member at University Hospital or a volunteer faculty member at an affiliated hospital. Programs will be individually arranged. Discussion should be held with faculty to help select experiences.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>2</td>
</tr>
<tr>
<td>Didactic conferences</td>
<td>8</td>
</tr>
<tr>
<td>Independent learning</td>
<td>Dependent upon student participation.</td>
</tr>
<tr>
<td>Research project</td>
<td>Dependent upon student participation.</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>20</td>
</tr>
</tbody>
</table>

**OGBY-725  Maternal Fetal Medicine** [this course available beginning July 2006]

Paul G. Tomich, M.D.

**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to report:** UH Room 4343  
**This elective must be pre-arranged with Nicole Bussey.**

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 Conference 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** [this course available beginning July 2006]

Teresa G. Berg, M.D.

**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**This elective must be pre-arranged with Nicole Bussey.**

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-722  Reproductive Endocrinology and Infertility** [this course available beginning July 2006]
Victoria Maclin, M.D.
**Periods Offered:** Each four weeks
**Student Limit:** 1
**Where to Report:** Heartland Center for Reproductive Medicine - 7308 South 142nd Street
This elective must be pre-arranged with Nicole Bussey.

Students on this rotations 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>
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</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>

**OGBY-760  Off-Campus Obstetrics and Gynecology Elective**
Sonja R. Kinney, M.D.
**Periods Offered:** Each four weeks
**Student Limit:** By Arrangement

Clerkships 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/Carl B. Camras, M.D.
Pat Yount, Curriculum Clerk
Eye Clinic – 3925 Dewey Avenue
402-559-4276

OPHT-720 Clinical Ophthalmology
Dr. Camras – UNH/OVAH
Periods Offered: Each four weeks, eight weeks by arrangement
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 papillary 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
Rounds                    1
Didactic conferences      4
Independent learning      0
Research project          0
Independent patient care  5-6
Surgical Observation      4-6

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, 559-2258

ORTH-722 Orthopaedic Service
Staff – UNMC Orthopaedic Faculty
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: 7:30 a.m. Resident Lounge, UMA Room 2550 on the first day of the rotation.

This elective must be pre-arranged with Geri Miller, 559-2258.

This rotation will offer an experience in both inpatient and outpatient management of orthopaedic problems, presenting a broad background in orthopaedic surgery. The student will be expected to attend all resident teaching conferences and assist in the management of all inpatients. The student will benefit from the association with residents and attending staff and become acquainted with the many facets and techniques of orthopaedic surgery.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Weeks</th>
</tr>
</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>Variable</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>1-3</td>
</tr>
<tr>
<td>Clinic</td>
<td>10-12</td>
</tr>
<tr>
<td>Surgery</td>
<td>15-20</td>
</tr>
</tbody>
</table>

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

This elective must be pre-arranged with Linda Kraut, Pediatric Orthopaedic Services, 492-9767.

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>
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</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-724  Orthopaedic Sports Medicine (Sports Medicine Center)**  
**Dr. David Brown**  
**Periods Offered:** Each four weeks (August-April)  
**Student Limit:** 1  
**Prerequisite:** ORTH-722 Orthopaedic Service  
**Where to Report:** Contact the Sports Medicine Center, 637-0800, one week in advance of the start of the service.

This elective must be pre-arranged with Marilyn (637-0800) at the Sports Medicine Center.

This purpose of this rotation is to provide the student with the opportunity to learn the evaluation, management and rehabilitative skills for musculoskeletal sports injuries, related medical problems, and treatment. The rotation includes experiences at the Sports Medicine Clinics, the operating room, rural Nebraska outreach clinics, athletic training rooms, and sideline medical coverage during football season. The Sports Medicine Program staff includes orthopaedic surgeons, physician assistants and certified athletic trainers.

<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>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>0</td>
</tr>
<tr>
<td>Surgery</td>
<td>20</td>
</tr>
<tr>
<td>Clinic</td>
<td>20</td>
</tr>
</tbody>
</table>
ORTH-724B Orthopaedic Sports Medicine (UNMC)
Dr. Charles Burt
Periods Offered: Each four weeks (August-May)
Student Limit: 1
Prerequisite: ORTH-722 Orthopaedic Service
Where to Report: Contact Geri Miller one week in advance of the start of the elective for instructions.

This elective must be pre-arranged with Geri Miller, 559-2258.

The purpose of this rotation is to provide an on-campus experience for the student to learn the evaluation, management, and rehabilitative skills for musculoskeletal sports injuries, related medical problems and treatment. The rotation will include experiences in the Orthopaedic Sports Medicine Clinic at UNMC and Dr. Burt’s private office at Clarkson, surgical experiences in sports medicine both at UNMC, Clarkson and the Nebraska Orthopaedic Hospital.

<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>3</td>
</tr>
<tr>
<td>Independent learning</td>
<td>5</td>
</tr>
<tr>
<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Surgery</td>
<td>20</td>
</tr>
<tr>
<td>Clinic</td>
<td>20</td>
</tr>
</tbody>
</table>

ORTH-762 Off-Campus Orthopaedic Surgery Elective
An Off-Campus Elective Application form must be submitted for this experience.

ORTH-799 Research in Orthopaedic Surgery Elective
Dr. Garvin and Staff
Periods Offered: Each four weeks
Student Limit: 1
Where to report: Room 2544 UMA
This elective must be pre-arranged with Connie Feschuk, RN, Clinical Research Nurse, 559-4167.

The objective of this elective is to allow selected students an opportunity for concentrated periods of research in musculoskeletal problems. The student will work with faculty in areas of their research interests which include electrical bone growth stimulation, fracture healing, arthritis, malignant hyperthermia, epiphyseal injuries and microvascular surgery. Both clinical and research opportunities are available as well as well-equipped laboratory facilities and technical assistance. Some clinical experience may also be gained during this time, particularly if applied to the research project.
OTOLARYNGOLOGY – HEAD AND NECK SURGERY

Chair/Dr. Donald A. Leopold
Julie Braun, Curriculum Clerk
3199 University Hospital
559-8007

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: Curriculum Clerk, ENT Department, 3199 UH 8:00 a.m.

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.
Students must make arrangements with Dr. Christine Hans and Kimberly Christian (Room 3545 UMA, 559-7212) before signing up for all Pathology electives.

PAMM-720  Anatomic Pathology  
(Includes Surgical Pathology, Cytopathology and Autopsy Pathology)  
Dr. Hans and Pathology Faculty  
Periods Offered:  Each four weeks  
Student Limit:  3 (By Arrangement)  
Where to Report:  Room 3545 UMA  

Students will spend part of their rotation on either the surgical pathology service and/or 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 8-9 a.m. resident reaching conferences and the 4:30-5:00 p.m. daily microscopic sessions to review interesting surgical cases. 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 Examination of specimens</td>
<td>25</td>
</tr>
<tr>
<td>Preparation of required presentation</td>
<td>3</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. Hans**

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

**PAMM-799  Special Topics**  
**Dr. Hans and Staff**  
**Periods Offered:  By Arrangement**  
**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 clinico-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>Drs. Pirruccello, Stickle</td>
</tr>
<tr>
<td>Dermatopathology</td>
<td>Drs. DiMaio, Hans</td>
</tr>
<tr>
<td>Specialty</td>
<td>Directors</td>
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<tr>
<td>----------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>Drs. Pirruccello, Aoun</td>
</tr>
<tr>
<td>Gynecologic Pathology</td>
<td>Dr. Julie Gulizia, Fletcher</td>
</tr>
<tr>
<td>Hematopathology</td>
<td>Drs. Weisenburger, Chan, Greiner, Aoun, Fu</td>
</tr>
<tr>
<td>Immunopathology</td>
<td>Dr. Johnson</td>
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<tr>
<td>Molecular Biology/Virology</td>
<td>Dr. Hinrichs</td>
</tr>
<tr>
<td>Neuropathology</td>
<td>Drs. McComb</td>
</tr>
<tr>
<td>Renal Pathology</td>
<td>Drs. Abrahams, Persidski, Bernal</td>
</tr>
<tr>
<td>Transfusion Medicine</td>
<td>Drs. Warkentin, Landmark</td>
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<tr>
<td>Transplantation Pathology</td>
<td>Drs. Wisecarver, Radio, James Gulizia, Bernal, Abrahams, Persidski</td>
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<tr>
<td>Urologic Pathology</td>
<td>Drs. Johansson, Abrahams</td>
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<tr>
<td>Microbiology</td>
<td>Drs. Hinrichs, Iwen</td>
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**Basic Research/Independent Study**  
Genetic abnormalities in bone and soft tissue tumors – Dr. Bridge  
Biomolecular immunology, lymphotropic viral oncogenesis and psychoneuroimmunology – Dr. Johnson
PEDS-703  Required Primary Clerkship in Pediatrics
Periods Offered:  Each eight weeks
Student Limit:  20
Semester Hours:  8
Where to Report:  UH 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 two-week blocks on the inpatient service and in the outpatient clinic. In addition, one-week blocks are spent at Munroe-Meyer Institute, specialty clinics, the newborn nursery, and at a private clinic in Omaha. The Community Track is taught at various sites across Nebraska and consists of an intensive exposure to primary care Pediatrics as practiced in a rural setting. The goals and curriculum for the clerkship are the national standard 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.

The curriculum, core lectures, and information about community and university tracks are available at:

http://www.unmc.edu/Pediatrics/undergraduateeducation/

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

PEDS-722  Pediatric Cardiology and Cardiovascular Disease
Drs. Kugler, Amin, Danford, Erickson, Fletcher, Gumbiner, Martin
Periods Offered:  Each four weeks
Student Limit:  1
Where to Report:  Dr. Kugler’s Office

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 resident sees the patient simultaneously with the staff cardiology. 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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds (Clinic)</td>
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<tr>
<td>Didactic conferences</td>
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<td>Independent learning</td>
<td>2</td>
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<tr>
<td>Research project</td>
<td>0</td>
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<td>Independent patient care</td>
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**PEDS-726 Pediatric Hematology Oncology and Bone Marrow Transplantation**

Drs. Coccia, Abromowitch, Gordon, Grovas, Harper, Thompson and Warkentin

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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>30</td>
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<tr>
<td>Didactic conferences</td>
<td>5</td>
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<tr>
<td>Independent learning</td>
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<td>Research project</td>
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<td>Independent patient care</td>
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**PEDS-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 karotype analysis.

Activity    Hours/Week
Rounds    0
Didactic conferences  3
Independent learning  0
Research project/lab work  40

PEDS-728  Newborn Medicine
Drs. Bolam, Fletcher, Kaftan, Zach, Anderson and Berry
Periods Offered: Each four weeks
Student Limit:  3
Where to Report: Neonatal ICU

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. Corley, Lutz
Periods Offered: Each four weeks
Student Limit:  1
Where to Report: Dr. Corley’s Office, Munroe-Meyer Institute Clinic area
(Please call 559-9197 in advance)

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

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds/Clinic</td>
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<tr>
<td>Didactic conferences</td>
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<td>Independent learning</td>
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<td>Research project</td>
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<td>Independent patient care</td>
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PEDS-730 Pediatric Gastroenterology  
Drs. Antonson, Attard, Vanderhoof  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Dr. Vanderhoof’s Office

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 cholestatis, 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.
PEDS-731  Genetics and Metabolic Disease  
Drs. Buehler, Lutz, Olney, Sanger, Schaefer  
**Periods Offered:** Each four weeks  
**Student Limit:** 2  
**Where to Report:** T.B.A.

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.

PEDS-732  Pediatric Pulmonology (including cystic fibrosis)  
Drs. Colombo, Sammut, Thomas, Wilson, Noronha  
**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Dr. Colombo’s Office

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.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tr>
<td>Rounds</td>
<td>36</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-734  Clinical Pediatric Neurology  
Drs. Larsen, McAllister, Pavkovic, Wright  
Periods Offered:  Each four weeks  
Student Limit:  1  
Where to Report:  Reporting instructions are sent by campus 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.

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<tr>
<td>Rounds</td>
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<td>Research project</td>
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PEDS-735  Infectious Disease  
Drs. Chaterjee, Romero and Varman  
Periods Offered:  Each four weeks  
Student Limit:  2  
Where to Report:  Reporting instructions are sent by campus mail prior to the start of the rotation.

This elective provides the student with an opportunity for in-depth study of clinical and laboratory aspects of infections in children. Students will be expected to read a course syllabus and will be asked to present one or more interesting cases at scheduled conferences. Students will learn to evaluate neonates, infants and children with a wide range of infectious diseases. This is primarily an inpatient experience with about 10% of patients seen in the outpatient clinic. Students are
required to see all new consults initially with residents or fellows. The students perform a complete workup and assessment, then present their findings and recommendations to the attending physician on daily rounds. Three laboratory tutorial sessions are taught during the month, each lasting 1 ½ to 2 hours. In addition, rounds are made each day in the microbiology laboratory and students are responsible for monitoring all ongoing microbiology test/results. Students are required to do considerable outside reading on their patients’ illnesses. A selected reading list is provided to all students at the beginning of the rotation and students are responsible for all the material therein. Regular “Journal Club” sessions are held throughout the month to discuss selected chapters from Infectious Diseases of Children.

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<th>Activity</th>
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<tr>
<td>Rounds</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-736 Developmental Pediatric Practicum**

**Drs. Ellis, 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>
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<tbody>
<tr>
<td>Rounds</td>
<td>30</td>
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<tr>
<td>Didactic conferences</td>
<td>5</td>
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<tr>
<td>Independent learning</td>
<td>10</td>
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<tr>
<td>Research project</td>
<td>2</td>
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<td>Independent patient care</td>
<td>0</td>
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</table>
PEDS-742 Pediatric Nephrology
Drs. Lovell and Lane
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: T.B.A.

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.

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

PEDS-750 Honors Pediatrics
Dr. Finken
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: Dr. Finken’s Office
Prerequisite: By Invitation Only (Contact Gary Beck if you have questions)

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>
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<td>Rounds</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
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<td>Research project</td>
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**PEDS-751 Pediatrics Subinternship**

**PICU:** Drs. Reynolds, Mysore (CMH)
**Wards:** Drs. Doherty, Holst and Snow (CMH)

**Periods Offered:** Each four weeks
**Student Limit:** 1 per track
**Where to Report:** T.B.A.
**Prerequisite:** By Invitation Only (Contact Gary Beck if you have questions)

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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<th>Activity</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>40+</td>
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<td>Didactic conferences</td>
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<td>Independent learning</td>
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<td>Research project</td>
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<td>Independent patient care</td>
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PEDS-760  General Pediatric Preceptorship  
Periods Offered: Each four weeks  
Student Limit: By Arrangement  

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-700  Fellowship in Cardiovascular Research  

This elective is intended to provide assistance and supervision to a student interested in research in cardiology. Funds may be available for support.

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.
A substantial number of students have expressed an interest in improving their clinical skills with regard to the spiritual aspects of care. This selective will help students improve their clinical skills as 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 selective will also assist students in working effectively with hospital chaplaincy.

Objectives: Students will be better able to:

1.) Identify the effect of spiritual/religious diversity on the practice of medicine.
2.) Critically evaluate current research on medicine and spirituality.
3.) Assess the spiritual history of a patient and the implications for establishing a physician-patient relationship.
4.) Reflect on the role of spirituality and religion in relationship to end-of-life decisions.

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 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 *Spirituality in Patient Care* (see above) as well as related articles.

**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 observe 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 in order 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 complete four written assignments: (1) a personal spiritual profile; (2) a reflection paper; (3) a case report; (4) a spiritual log.

Contact Dr. Toby Schonfeld by e-mail at tschonfeld@unmc.edu or by telephone at 402-559-2921.

**P-SM-733  Patient-Physician Communication and a Meaningful Relationship**

**Primary Faculty:** Ruth Margalit, M.D.

**Periods Offered:** November and December ONLY

**Student Limit:** 2-6

**Objectives:** Students will be able to:

(a) Understand their individual communication style and preferences.
(b) Reflect on their personal experience in communicating with patients.
(c) Review and describe the literature concerning the nature of physician-patient relationships and the different communication methods used, with special attention to patient-centered care.
(d) Evaluate current research on the relationship of physician-patient communication patterns to health outcomes and physician and patient satisfaction.
(e) Examine nationally and internationally used interaction analysis systems.
Topics covered:
(a) The biomedical model and bio-psychosocial mode
(b) Patient-centered care
(c) The medical interview: setting an agenda for the visit; understanding patient’s perspective; responding to emotions; finding common ground; listening to the patient’s story; empowering and partnering in medicine
(d) Clinical outcomes of improved communication
(e) Methods and systems that capture and code the medical discourse
(f) Teaching physicians and patients to be better communicators

Student Activities: Weekly meetings with faculty, review of major papers in the field, shadowing and evaluating seasoned communicators, analysis of pieces from the media that demonstrate doctor’s communication styles (movies and TV), and “discover your style” with an innovative computerized interaction analysis system, summary paper.

Contact Ruth Margalit, M.D. by e-mail at margalit@unmc.edu or by telephone at 402-559-7458.

**P-SM-734 Current Issues in Law and Medicine**  
Primary faculty: Rebecca Rae Anderson, J.D., M.S.  
Periods Offered: Month of March ONLY  
Student Limit: 2-6

Students will review legal principles, discuss current tensions in medical case law and policy, and select a topic for research culminating in a paper and presentation.

Objectives:  
Become familiar with legal reasoning and legal research materials.  
Review historical developments in medical law.  
Integrate professional, clinical and legal considerations in analyzing unsettled issues.  
Produce a research paper for possible publication.

Topics Covered:  
Governmental entities and their roles in regulating health care.  
Major landmarks in the evolution of medico-legal law and policy.  
High-profile contemporary issues.  
Special topics chosen by students.

Student Activities:  
Meet at least twice weekly with Omaha attorneys for roundtable discussions.  
Identify a topic for research.  
Become familiar with the resources needed to evaluate the chosen topic.
Prepare a research paper for possible publication – Review article – Develop or critique a statute or regulation – Public Policy analysis – Other project approved by faculty.

Oral presentation at final meeting.

Optional activities as opportunities arise
- Community speakers
- Relevant rounds
- Relevant UNMC / NMC meetings
- Films
- Novels

Assessment: Continual assessment by faculty, with special emphasis on oral and written presentations.

Contact Rebecca Anderson by e-mail at randerso@unmc.edu or at pager 402-888-0438.

**P-SM-770  Advanced Seminar in Medical Humanities**

Andrew Jameton, Ph.D. or Virginia Aita, Ph.D. or Toby Schonfeld, 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.
PSYCHIATRY

Chair/Steven P. Wengel, M.D.
Clerkship Director: Mary Jo Hanigan, M.D.
Curriculum Coordinator: Betsy Porter, RYC, 515 S. 26th St., Room 301, 354-7803

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 Mary Jo Hanigan, M.D. at 354-7803.

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

PSYC-710 Clinical Child Psychopharmacology
Drs. Christopher Kratochvil
Periods Offered: Each four or eight weeks
Student Limit: 1

This elective will help provide the student who has a specific interest in this area with a greater understanding of this rapidly growing field. This will be achieved through active participation by the student in Grand Rounds presentations, medication clinic, guided self-study and the Psychopharmacology research program.

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<tr>
<th>Activity</th>
<th>Hours/Week</th>
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<tbody>
<tr>
<td>Rounds</td>
<td>12</td>
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<td>Independent patient care</td>
<td>0</td>
</tr>
<tr>
<td>Research Meeting</td>
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<tr>
<td>Grand Rounds</td>
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</tbody>
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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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
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<td>Didactic conferences</td>
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<tr>
<td>Multidisciplinary Meeting</td>
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<td>Grand Rounds</td>
<td>1</td>
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**PSYC-716 Clinical Geriatric Psychopharmacology**  
**Dr. Prasad Padala**  
**Periods Offered:** Each four weeks  
**Student Limit:** 1

(Elective is pending approval from the College of Medicine Curriculum Committee)

This elective can be tailored according to the interest of residents primarily directed towards hands-on experience in research. Students will be welcome to participate in an ongoing research project or choose a small project using data collected previously. Students will be encouraged to attend a weekly research meeting, journal club and research training sessions in addition to working directly with patients. Students are encouraged to contact Dr. Padala four weeks before the start of the elective so that the mandatory paper work and CITI training can be completed prior to the starting the elective.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
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<td>Research Meeting</td>
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<tr>
<td>Grand Rounds</td>
<td>1</td>
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</table>

**PSYC-721 Individualized Studies in Psychiatry**  
**Dr. Mary Jo Hanigan**  
**Periods Offered:** Each four or eight 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, Geriatric Psychiatry, Forensic Psychiatry, Psychotherapy, and other topics by arrangement.

<table>
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<th>Activity</th>
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**PSYC-740  Consultation Liaison Psychiatry**  
*Drs. Sorrell, Stull and 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.

<table>
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<td>Multidisciplinary Meeting</td>
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**PSYC-741  Geriatric Psychiatry**  
*Drs. Burke, Magnuson, Roccaforte and Wengel*  
*Periods Offered: Each four weeks*  
*Student Limit: By Arrangement*

This elective can be tailored to the needs 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.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours/Week</th>
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</thead>
<tbody>
<tr>
<td>Rounds</td>
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<td>Research project</td>
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</table>
Independent patient care 10
Grand Rounds 1

PSYC-760 Off-Campus Psychiatry Elective
Student Limit: By Arrangement with Dr. Mary Jo Hanigan

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

Chair/Dr. Craig Walker
Dr. Jean A. Saigh/Student Coordinator
Tina Clifton, Curriculum Clerk
Room 1541 UMA
559-1018

RADI-720  Diagnostic Radiology
Periods offered:  Each four weeks EXCEPT DECEMBER & APRIL
This elective is NOT offered during the months of December and April.
Student Limit:  12
Where to Report:  Students will be notified as to hospital assignments prior to
the month by letter – Room 1500 (Hunt Conference room) UMA 8:30 a.m.

Daily observations of film interpretation, fluoroscopic examination and special
radiographic procedures.  With the cooperation of the instructor, emphasis can be
directed to specialized areas such as pediatric radiology, cardiovascular radiology,
ultrasounds, neuroradiology and GU radiology.

Students will be assigned to University or affiliated Hospitals by the student
coordinator.  Preference for a given hospital assignments or special emphasis
should be discussed with the student coordinator prior to the month.

RADI-724  Nuclear Medicine
Periods Offered:  Each four weeks
(may be extended an additional four weeks by permission)
Student Limit:  4 per section
Where to Report:  The Nebraska Medical Center – Ground Floor

This elective is directed towards acquainting the student with the field of Nuclear
Medicine.  The application of nuclear energy 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, participate in case evaluation, procedure
selection, radio-pharmaceutical dose calculation and administration, conduct the
procedure, subsequent evaluation and analysis of data with patients with 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-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
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.

<table>
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<td>Independent patient care</td>
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</table>
Surgery is a clinical science, which allows the student the opportunity to utilize all the knowledge gained during the pre-clinical years. A thorough knowledge of anatomy is essential in order to carry out an appropriate operation. In the operating room, the gross pathology is observed and the microscopic pathology (histology) reviewed later in the pathology lab. The physiology of the surgical disease and its effect on all body systems is observed postoperatively, intra-operatively, and during the postoperative recovery period. In addition, patients may require surgery to treat a variety of infectious diseases or may develop infectious complications during the postoperative period. Finally, surgical patients are unique in their absorption, metabolism and excretion of the variety of pharmaceutical agents used in their care.

As you plan your career, you can feel confident that choosing any surgical elective will contribute to your effectiveness as a physician no matter which field of medicine you choose to pursue. The Department of Surgery represents a number of areas: general surgery, urology, oral surgery, pediatric surgery, neurosurgery, emergency medicine, plastic and reconstructive surgery and cardio-thoracic surgery. Other areas of surgical interest are identified in the Department of Anesthesiology, Ophthalmology, Orthopaedic Surgery and Otolaryngology-Head and Neck Surgery.

A student actively involved in a creative research program or desiring extra competence in a well-defined area can be accommodated by special arrangements. If your career plans include an interest in surgery, the department suggests the following as electives:

1. Four weeks on a general surgical service and an additional four weeks on a surgical subspecialty (cardiac, urology, pediatrics, neurosurgery, vascular, etc.) in order to help you decide if your interest in surgery as a career is definite.
2. Twelve weeks on services in the non-operative areas of medicine, especially in those fields where referrals for operation are common.
3. Twelve weeks on services in areas other than general and cardio-thoracic surgery, such as radiology, anesthesiology, emergency medicine services, etc. Also examine the programs offered in Ophthalmology, Orthopaedic Surgery and Otolaryngology.

Members of the faculty of the Department of Surgery would be pleased to give you any advice regarding these selections, whether or not your long-range plans involve a career in surgery. 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-722 Beverly Vaughn (Surgery)
SURG-724 Beverly Vaughn (Surgery)
SURG-726 Beverly Vaughn (Surgery)
SURG-728 Beverly Vaughn (Surgery)
SURG-729 Beverly Vaughn (Surgery)
SURG-730 Beverly Vaughn (Surgery)
SURG-733 Tammi Erickson (E.R.)
SURG-736 Kellie Devney (Neurosurgery)
SURG-738 Kellie Devney (Neurosurgery)
SURG-740 Kellie Devney (Neurosurgery)
SURG-760 Beverly Vaughn (Surgery)
SURG-761 Tammi Erickson (E.R.)
SURG-766 Beverly Vaughn (Surgery)
SURG-790 Beverly Vaughn (Surgery)
SURG-799 Kellie Devney (Neurosurgery)

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 student will have an eight-week rotation in surgery. The surgical clerkship is divided into a structured educational curriculum (didactic lectures, computer-aided learning, and skills workshops), a four-week clinical rotation on general surgery and rotations on two of five surgical subspecialties (urology, orthopaedics, ophthalmology, neurology and ENT). The general surgical portion of the clerkship will place students at The Nebraska Medical Center, VA Medical Center, Immanuel, or the Nebraska Methodist Hospital. Students will be involved as an integral part of the ward team and will participate in morning and afternoon rounds. Mandatory attendance at lectures and skills workshops presented throughout the rotation is required and takes precedence over clinical activities.
Grading/evaluation will be based on clinical assessment, an oral exam, and a final examination. The final examination is a multiple choice format/subject examination prepared by the NBME (National Board of Medical Examiners).

**SURG-710 Plastic Surgery**  
Dr. Ronald Hollins  
Periods Offered: Each four weeks  
Student Limit: 1  
Where to Report: Check with Beverly Vaughn Room 4550 UMA

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 4550 UMA

Students are active participants in the team caring for patients. Students will be exposed to genitor-urinary tract disease recognition, diagnosis, and therapy and be encouraged to partake fully in the pre-operative, intra-operative and post-operative management of these patients.

**SURG-722 Pediatric Surgery**  
Drs. Raynor, Cusick  
Periods Offered: Each four weeks  
Student Limit: 1  
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 ad 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-724 Cardio-Thoracic Surgery**  
Periods Offered: Each four weeks  
Student Limit: 1 – Drs. Rudy Lackner, Kim Duncan, James Hamle, Ali Khoynezhad, Mohammed Quader  
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 and 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 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. Michael Miloro/UNH  
**Periods Offered:** Each four weeks  
**Student Limit:** 1  
**Where to Report:** Students should make arrangements with Dr. Michael Miloro 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-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. Eakins, Owens,  
Methodist: Drs. Rose, Reilly, Winterstein  
Immanuel: Drs. Christensen, Thorson, Blatchford, Tarnet  
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**
*Periods Offered: Each four weeks*  
*Student Limit: 1*  
*Where to Report: Check with Beverly Vaughn Room 4550 UMA*

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 follow both the liver transplant patients at UNMC and the renal transplant patients at The Nebraska Medical Center. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation.

**SURG-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 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, and immobilization lab, required reading (textbooks provided at no cost) and a post-test. Paramedic squad observation will also be required. For further information, contact Tammi Erickson or Dr. Kristi Bott at University Hospital (559-6802).

**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 serviced are available, one each with:

Drs. George Greene and Ric Jensen, Omaha

Drs. Leslie Hellbusch, Steve Doran, Douglas Long, Mark Puccioni, Wendy Spangler, John Treves and Bradley Bowdino, Omaha

Drs. Eric Pierson, Benjamin Gelber, Childreph Kent and Daniel Tomes, Lincoln

Drs. A. Badejo and Ramon Salumbides, Kearney

Dr. Lee Krauth, Scottsbluff

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 responsible and acceptable faculty-in-absentia who can assure an active clerkship and offer an evaluation of performance. A student evaluation of this clerkship will be required upon completion.

SURG-761  Off-Campus Emergency Room  
Periods Offered: Each four weeks  
Student Limit: By Arrangement  

A special off-campus elective 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.

SURG-766  Preceptorial Surgery  
Periods Offered: Each four weeks  
Student Limit: By Arrangement – please contact Beverly Vaughn in the Department of Surgery  

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

Student Name: __________________________________________
Mailbox: ________________________________________________
Career Interest: __________________________________________
Advisor’s Name: __________________________________________

Advisor’s Approval: _______________________________________

(Advisor’s Signature)

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<td>PEDS-728 Newborn Medicine</td>
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<td>IMED-720 Adult Cardiology</td>
<td>IMED-726 Infectious Disease</td>
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<td>SURG-730 Transplantation</td>
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<td>IMED-724 G.I.</td>
<td>IMED-722 General Medicine</td>
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<td>ANES-720 Anesthesia</td>
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<td>DEC 2006</td>
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<td>APR 2007</td>
<td>OPHT-720 Ophthalmology</td>
<td>IMED-727 Renal</td>
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RETURN WORKSHEET TO SUE POPE BY FRIDAY, MARCH 24, 2006.