



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

SENIOR ELECTIVE HANDBOOK

CLASS OF 2016

2015-2016 ACADEMIC YEAR

FEBRUARY 2015

Office of Admissions and Student Affairs

University of Nebraska Medical Center
College of Medicine

SENIOR ELECTIVE HANDBOOK
2015-2016

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University of Nebraska College of Medicine
2015-2016 Academic Year

SEMESTERS

First Semester (M1-M2)	August 24, 2015 – December 18, 2015
First Semester (M3-M4)	July 6, 2015 – December 18, 2015
Second Semester (M1-M2)	January 11, 2016 – May 6, 2016
Second Semester (M3)	January 4, 2016 – June 26, 2016
Second Semester (M4)	January 4, 2016 – May 1, 2016

SENIOR ELECTIVE PERIODS

July 2015	July 6, 2015 – August 2, 2015
August 2015	August 3, 2015 – August 30, 2015
September 2015	August 31, 2015 – September 27, 2015
October 2015	September 28, 2015 – October 25, 2015
November 2015	October 26, 2015 – November 22, 2015
December 2015	November 23, 2015 – December 18, 2015
January 2016	January 4, 2016 – January 31, 2016
February 2016	February 1, 2016 – February 28, 2016
March 2016	February 29, 2016 – March 27, 2016
April 2016	April 4, 2016 – May 1, 2016
Commencement	May 7, 2016 (Saturday)

RECESSES AND HOLIDAYS

Independence Day	July 5, 2015 (Saturday)
Labor Day	September 7, 2015 (Monday)
Thanksgiving (M1-M4)	November 26, 2015 – November 27, 2015
Winter Recess (M3-M4)	December 18, 2015 – January 3, 2016
Winter Recess (M1-M2)	December 18, 2015 – January 10, 2016
New Year's Day (Holiday)	January 1, 2016 (Friday)
Martin Luther King, Jr.	January 18, 2016 (Monday)
Spring Recess (M1-M2)	March 21, 2016 – March 27, 2016
Spring Recess (M3-M4)	March 28, 2016 – April 3, 2016
Memorial Day	May 30, 2016 (Monday)
Summer Recess (M3)	June 27, 2016 – July 4, 2016

SPECIAL EVENTS

J-Term (Class of 2017 requirement)	June 30, 2015 – July 2, 2015
First Year Orientation	August 17, 2015 – August 21, 2015
White Coat Ceremony (M1)	August 21, 2015 (Friday)
FIRST DAY OF CLASS (M1-M2)	August 24, 2015 (Monday)
Honors Convocation (M4)	May 6, 2016 (Friday)
Commencement (M4)	May 7, 2016 (Saturday)
CORE EXAMS (M1-M2)	T.B.A. (Announced by OME)

CLASS OF 2017 – JUNIOR YEAR ROTATION SCHEDULE

<u>PERIOD NUMBER</u>	<u>DATES OF PERIOD</u>
INDEPENDENCE DAY *	July 4, 2015 (Saturday)
PERIOD 01	July 6, 2015 – July 19, 2015
PERIOD 02	July 20, 2015 – August 2, 2015
PERIOD 03	August 3, 2015 – August 16, 2015
PERIOD 04	August 17, 2015 – August 30, 2015
LABOR DAY	September 7, 2015 (Monday)
PERIOD 05	August 31, 2015 – September 13, 2015
PERIOD 06	September 14, 2015 – September 27, 2015
PERIOD 07	September 28, 2015 – October 11, 2015
PERIOD 08	October 12, 2015 - October 25, 2015
PERIOD 09	October 26, 2015 – November 8, 2015
PERIOD 10	November 9, 2015 - November 22, 2015
PERIOD 11	November 23, 2015 – December 6, 2015
THANKSGIVING	November 26, 2015 - November 27, 2015
PERIOD 12	December 7, 2015 - December 18, 2015**
** SERVICE ENDS ON FRIDAY	
WINTER RECESS	December 19, 2015 - January 3, 2016
PERIOD 13	January 4, 2016 – January 17, 2016
MARTIN LUTHER KING, JR.	January 18, 2016 (Monday)
PERIOD 14	January 19, 2016 – January 31, 2016
PERIOD 15	February 1, 2016 – February 14, 2016
PERIOD 16	February 15, 2016 – February 28, 2016
PERIOD 17	February 29, 2016 – March 13, 2016
PERIOD 18	March 14, 2016 – March 27, 2016
SPRING RECESS	March 28, 2016 – April 3, 2016
PERIOD 19	April 4, 2016 – April 17, 2016
PERIOD 20	April 18, 2016 – May 1, 2016
PERIOD 21	May 2, 2016 – May 15, 2016
PERIOD 22	May 16, 2016 – May 29, 2016
MEMORIAL DAY	May 30, 2016 (Monday)
PERIOD 23	May 31, 2016 – June 12, 2016
PERIOD 24	June 13, 2016 – June 26, 2016
SUMMER RECESS (M3)	June 27, 2016 – July 4, 2016

Scheduling Instructions

Requirements for Graduation (Class of 2016) include the following:

Basic Required Clerkships:

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

SENIOR YEAR IS 10 MONTHS LONG (July-April)

7 or 8 months of electives during the senior year

Senior Selective (M4 year) 4 weeks

ICE Senior Seminars (M4 year) 4 weeks

The last page of this handbook is a **Sample** scheduling worksheet. Copies of worksheets are available from the Office of Admissions and Student Affairs.

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

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

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

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

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

You **MUST** have your advisor's signature on your worksheet.

Scheduling Timetable

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

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

February 2015:

The 2015-2016 Senior Elective Handbook and 2015-2016 Senior Selective Handbook will be available. Schedule an appointment to meet with your Clinical Curriculum Advisor. You may then complete your scheduling worksheet. Copies of the worksheet are available from Sue Pope.

In February you will have an opportunity to request a month (February 2016 or April 2016) for your ICE Senior Seminar. If all requests cannot be accommodated, then a lottery will be used to allocate students to a given month. If you do not submit a request, you will be assigned to either February 2016 or April 2016 for ICE. You will be notified of your ICE month in early March 2015 so you can finish your senior year planning. (Please refer to the course description for M-ID-710 for details about the course.)

March 2015:

Deadline for returning worksheet to Sue Pope:

Friday, March 27, 2015

Room 4043 Michael F. Sorrell Center (Zip 5527)

Include your ICE Senior Seminar (M-ID-710) as assigned in the appropriate month on your worksheet (either February 2016 or April 2016). Requests to change your ICE month can only be accommodated on a “space available” basis and must be arranged with Lisa Paquette (lisa.paquette@unmc.edu) **prior** to submitting your worksheet.

May 2015:

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

June 2015:

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

Advisor System

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

The philosophy of the advising system:

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

To provide students with a faculty member who is familiar with the students' abilities, which can serve as a confidant and advocate for the student.

To better inform the student of opportunities that may enhance their medical school education.

To assist the student in understanding the guidelines for promotion set by the College of Medicine.

To inform the student of campus support services that might aid them in times of their academic or personal difficulty.

To assist the student in the design of senior electives that support their residency choice.

By March of the third year, students should select 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 during the junior year would, for many students, represent an individual in the field of the students' residency training interest. The student would meet with an advisor to plan the M4 year. Students have the liberty of changing advisors according to their career interests. The advisor will discuss and approve senior elective choices and help with career planning.

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

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

Residency Career Advisor:

These are the primary residency advisors for each department. They are available to students thinking of entering that field. These advisors are knowledgeable about residency programs and strategies for application in that field. Students are permitted to change advisors should their area of interest change or should they find that the original advisor is not meeting their needs.

A list of advisors follows this section.

CLINICAL CURRICULUM ADVISORS

ANESTHESIOLOGY

Jennifer Adams, M.D.
Madhuri Are, M.D.
Tara Brakke, M.D.
Kristina Birch, M.D.
Tom Brooks, M.D.
Beth Burton, M.D.
Megan Chacon, M.D.
Amy Duhachek-Stapelman, M.D.
Sheila Ellis, M.D.
Erin Etoll, M.D.
Michael P. Fee, M.D.
Katie Goergen, M.D.
Ali Hascall, M.D.
Nick Heiser, M.D.
Kim Haynes Henson, M.D.
Scott Hofmann, M.D.
Terry Huang, M.D.
Barbara J. Hurlbert, M.D.
Dan Johnson, M.D.
Sean Karre, M.D.
Michael Lankhorst, M.D.
Steven Lisco, M.D.
Nick Markin, M.D.
Maria Michaelis, M.D.
Tom Nicholas, M.D.
Platt Niebur, M.D.
John Ohnoutka, M.D.
Huiling Pang, M.D., Ph.D.
K. Reed Peters, M.D.
Angie Rakes, M.D.
Kyle Ringenberg, M.D.
Ellen Roberts, M.D.
Nancy Rogic, M.D.
Tom Schulte, M.D.
Sasha Shillcutt, M.D.
Jean Simonson, M.D.
Jim Sullivan, M.D.
Corey Zetterman, M.D.

EMERGENCY MEDICINE

Aaron Barksdale, M.D.
Claudia Barthold, M.D.
Kristine Bott, M.D.
Chad Branecki, M.D.
Amy Cutright, M.D.
Christine Miyake, M.D.
Robert Muelleman, M.D.
Michael Wadman, M.D.
Richard Walker, M.D.
Wes Zeger, D.O.

FAMILY MEDICINE

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

INTERNAL MEDICINE

Micah Beachy, D.O.
Philip Bierman, M.D.
Rachel Bonnema, M.D.
James Campbell, M.D.
Amy Cannella, M.D.
Gay Canaris, M.D.
Julie Fedderson, M.D.
Anne Kessinger, M.D.
Lynell Klassen, M.D.
Emily Leasure, M.D.
Ted Mikuls, M.D.
Gerald F. Moore, M.D.
J. Scott Neumeister, M.D.
David O'Dell, M.D.
James O'Dell, M.D.
Jennifer Parker, M.D.
Craig Piquette, M.D.
Troy Plumb, M.D.
Jane Potter, M.D.
Elizabeth Reed, M.D.
Debra Romberger, M.D.
Daniel Schafer, M.D.
Jason Shiffermiller, M.D.
Joseph Sisson, M.D.
Thomas Tape, M.D.
Austin Thompson, M.D.
Andrew Vasey, M.D.
Chad Vokoun, M.D.
Julie Vose, M.D.
John Windle, M.D.
Renee Young, M.D.

MEDICINE-PEDIATRICS

Jennifer Parker, M.D.
John Sparks, M.D.
Sharon Stoolman, M.D.

NEUROLOGY

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

NEUROSURGERY (DIVISION OF) – SURGERY

Michele Aizenberg, M.D.
Bradley Bowdino, M.D.
Stephen Doran, M.D.
Kenneth Follett, M.D.
Les Hellbusch, M.D.
Keith Lodhia, M.D.
Douglas Long, M.D.
Guy Music, M.D..
Mark Puccioni, M.D.
Wendy Spangler, M.D.
Daniel Surdell, M.D.
William Thorell, M.D.
John Treves, M.D.

OBSTETRICS AND GYNECOLOGY

N. Jean Amoura, M.D.
Teresa G. Berg, M.D.
Karen Carlson, M.D.
Libby Crockett, M.D.
Laura Cudzilo, M.D.
Katherine Finney, M.D.
Jennifer Griffin, M.D., M.P.H.
Sonja R. Kinney, M.D.
Ramzy Nakad, M.D.
Robert C. Olesh, M.D.
Steven W. Remmenga, M.D.
Kerry Rodabaugh, M.D.
Carl V. Smith, M.D.
Marvin L. Stancil, M.D.
Paul G. Tomich, M.D.
Sylvia Ziegenbein, M.D.

OPHTHALMOLOGY

Diana Do, M.D.
James Gigantelli, M.D.
Vikas Gulati, M.D.
John Halgren, M.D.
Thomas W. Hejkal, M.D., Ph.D.
Shannon Lynch, M.D.

OPHTHALMOLOGY (Continued)

Eyal Margalit, M.D., Ph.D.
Quan Nguyen, M.D.
Millicent Palmer, M.D.
Sushma Rai, M.D.

ORAL SURGERY (SECTION OF) – SURGERY

Leon Davis, D.D.S., M.D.

ORTHOPAEDIC SURGERY AND REHABILITATION

Chris Cornett, M.D.
Miguel Daccarett, M.D.
Mark Dietrich, M.D.
Paul W. Esposito, M.D.
Kevin L. Garvin, M.D.
Hani Haider, Ph.D.
Curtis Hartman, M.D.
Brian Hasley, M.D.
Layne Jenson, M.D.
Beau Konigsberg, M.D.
Sean McGarry, M.D.
Matthew A. Mormino, M.D.
Lori K. Reed, M.D.
Susan A. Scherl, M.D.
Matthew Teusink, M.D. (August 2013)

OTOLARYNGOLOGY – HEAD AND NECK SURGERY

Barbara M. Heywood, M.D.
Dwight T. Jones, M.D.
William M. Lydiatt, M.D.
Oleg Militsakh, M.D.
Samuel Pate, M.D.
Russell Smith, M.D.

PATHOLOGY AND MICROBIOLOGY

Dominick DiMaio, M.D.
Timothy C. Greiner, M.D.
Subodh Lele, M.D.
Geoffrey Talmon, M.D.
William West, M.D.
James Wisecarver, M.D., Ph.D.

PEDIATRICS

Jill Beck, M.D.
Ann Anderson-Berry, M.D.
Bruce Buehler, M.D.
John Colombo, M.D.
Don Coulter, M.D.
David Finken, M.D.
James Harper, M.D.
Hao (Howard) Hsu, M.D.
John Kugler, M.D.
Amy LaCroix, M.D.
Paul Larsen, M.D.

PEDIATRICS (Continued)

Stefanie Lowas, M.D.
Sheryl Pitner, M.D.
Sheilah Snyder, M.D.
John Sparks, M.D.
Sharon Stoolman, M.D.
John Walburn, M.D.

PEDIATRIC SURGERY (SECTION OF) – SURGERY

Shahab Abdessalam, M.D.
Kenneth Azarow, M.D.
Robert Cusick, M.D.
Stephen Raynor, M.D.

PSYCHIATRY

Jean Benton, M.D.
Lindsey Corr, M.D.
Matthew Egbert, M.D.
Howard Liu, M.D.
Thomas Magnuson, M.D.
William Roccaforte, M.D.
Ashish Sharma, M.D.
Sheritta Strong, M.D.
Steven Wengel, M.D.

RADIATION ONCOLOGY

Charles A. Enke, M.D.
Chi Lin, M.D.
Robert Thompson, M.D.
Andrew Wahl, M.D.
Weining Zhen, M.D.

RADIOLOGY

Matthew DeVries, M.D.
Jason Helvey, M.D.
Mark Keiper, M.D.
Sushama Kunnathil, M.D.
Melissa Manzer, M.D.
Lucy Muinov, M.D.
Jennifer Oliveto, M.D.
Dick Slater, M.D.

SURGERY

Chandra Are, M.D.
Kenneth Azarow, M.D.
Timothy Baxter, M.D.
Mark Carlson, M.D.
Samuel Cemaj, M.D.
Kim Duncan, M.D.
James Edney, M.D.
Jason Foster, M.D.
Matthew Goede, M.D.
Wendy Grant, M.D.
James Hammel, M.D.

SURGERY (Continued)

Randeep Jawa, M.D.
Jason Johanning, M.D.
Vishal Kothari, M.D.
Rudy Lackner, M.D.
Sean Langenfeld, M.D.
Alan Langnas, D.O.
Quan Ly, M.D.
Matthew Longo, M.D.
Jason MacTaggart, M.D.
Oveys Mansuri, M.D.
Alexander Maskin, M.D.
Corrigan McBride, M.D.
David F. Mercer, M.D.
David W. Mercer, M.D.
Michael Morris, M.D.
Michael Moulton, M.D.
Lawrence Nelson, M.D.
Iraklis Pipinos, M.D.
Aaron Sasson, M.D.
Paul Schenarts, M.D.
Byers Shaw, M.D.
Edibaldo Silva-Lopez, M.D.
Joseph Stothert, M.D.
Jon Thompson, M.D.
Karin Trujillo, M.D.
John Um, M.D.
Luciano Vargas, M.D.

UROLOGY (SECTION OF) – SURGERY

Michael Feloney, M.D.
Herman Greenwald, M.D.
Chad LaGrange, M.D.
Larry Siref, M.D.

RESIDENCY CAREER ADVISORS

ANESTHESIOLOGY

Amy Duhachek-Stapelman, M.D.
Sheila Ellis, M.D.
Barbara J. Hurlbert, M.D.
Jean Simonson, M.D.
Nicholas Heiser, M.D.

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William Lyons, M.D.
J. Scott Neumeister, M.D.
David O'Dell, M.D.
James R. O'Dell, M.D.
Thomas Tape, M.D.
Chad Vokoun, M.D.
Trevor VanShooneveld, M.D.

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Patrick Doherty, M.D.
Jennifer Parker, M.D.
Allison Ramey, M.D.
John Sparks, M.D.
Sharon Stoolman, M.D.

NEUROLOGY

John Bertoni, M.D.
Pierre Fayad, M.D.
J. Americo Fernandes, M.D.
Harris A. Frankel, M.D.
Amy Hellman, M.D.
Deepak Madhavan, M.D.
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Mark Puccioni, M.D.

OBSTETRICS AND GYNECOLOGY

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Sonja R. Kinney, M.D.
Ramzy Nakad, M.D.
Robert C. Olesh, M.D.
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Kerry Rodabaugh, M.D.
Carl V. Smith, M.D.
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Sylvia Ziegenbein, M.D.

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Shannon Lynch, M.D.
Eyal Margalit, M.D.
Quan Nguyen, M.D.
Sushma Rai, M.D.

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Mark Dietrich, M.D.
Paul W. Esposito, M.D.
Kevin L. Garvin, M.D.
Hani Haider, Ph.D.
Curtis Hartman, M.D.
Brian Hasley, M.D.
Layne Jenson, M.D.
Beau Konigsberg, M.D.
Sean McGarry, M.D.
Matthew A. Mormino, M.D.
Lori K. Reed, M.D.
Susan A. Scherl, M.D.
Matthew Teusink, M.D. (August 2013)

OTOLARYNGOLOGY – HEAD AND NECK SURGERY

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Dwight T. Jones, M.D.
William M. Lydiatt, M.D.
Oleg Militsakh, M.D.
Samuel Pate, M.D.
Russell Smith, M.D.

PATHOLOGY

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

PEDIATRICS

Bruce Buehler, M.D.
Don Coulter, M.D.
Patrick Doherty, M.D.
Paul Larsen, M.D.
Lisa Seiczkowski, M.D.
John Sparks, M.D.
Rob Spicer, M.D.
Sharon Stoolman, M.D.
John Walburn, M.D.

PSYCHIATRY

Jeana Benton, M.D.
Matthew Egbert, M.D.
Carl Greiner, M.D.
Howard Liu, M.D.
Thomas Magnuson, M.D.
William Roccaforte, M.D.
Ashish Sharma, M.D.
Sheritta Strong, M.D.
Steven Wengel, M.D.

RADIATION ONCOLOGY

Charles A. Enke, M.D.
Andrew Wahl, M.D.
Weining Zhen, M.D.

RADIOLOGY

Matthew DeVries, M.D.
Jason Helvey, M.D.
Mark Keiper, M.D.
Sushama Kunnathil, M.D.
Melissa Manzer, M.D.
Lucy Muinov, M.D.
Jennifer Oliveto, M.D.
Dick Slater, M.D.

SURGERY

Chandra Are, M.D.
Kenneth Azarow, M.D.
Timothy Baxter, M.D.
Mark Carlson, M.D.
Samuel Cemaj, M.D.
Kim Duncan, M.D.
James Edney, M.D.
Jason Foster, M.D.
Matthew Goede, M.D.

SURGERY (Continued)

Wendy Grant, M.D.
James Hammel, M.D.
Randeep Jawe, M.D.
Jason Johanning, M.D.
Vishal Kothari, M.D.
Rudy Lackner, M.D.
Sean Langenfeld, M.D.
Alan Langnas, D.O.
Matthew Longo, M.D.
Quan Ly, M.D.
Thomas Lynch, M.D.
Jason MacTaggart, M.D.
Alexander Maskins, M.D.
Corrigan McBride, M.D.
David F. Mercer, M.D.
David W. Mercer, M.D.
Michael Morris, M.D.
Michael Moulton, M.D.
Lawrence Nelson, M.D.
Dmitry Oleynikov, M.D.
Iraklis Pipinos, M.D.
Aaron Sasson, M.D.
P.J. Schanarts, M.D.
Byers Shaw, M.D.
Edibaldo Silva-Lopez, M.D.
Joseph Stothert, M.D.
Jon Thompson, M.D.
Karin Trujillo, M.D.
John Um, M.D.
Luciano Vargas, 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 27, 2015.

ELECTIVE LISTS

ANESTHESIOLOGY

Anesthesiology
Newborn Medicine
Adult Cardiology
Nephrology
Diabetes, Endocrine and Metabolism
Otolaryngology
Anatomic Pathology
Adult Intensive Care
Radiology

EMERGENCY MEDICINE

Anesthesiology
Adult Cardiology
Adult ICU
Emergency Medicine
Ophthalmology
Orthopaedic Surgery
Pediatric ICU
Radiology
Trauma Surgery

FAMILY MEDICINE – RURAL PRACTICE

Advanced Obstetrics
Newborn Medicine
Adult ICU
Family Medicine Inpatient Rotation
Ambulatory Surgical electives
Internal Medicine electives
Ambulatory Psychiatry
Otolaryngology

FAMILY MEDICINE – URBAN PRACTICE

Family Medicine Ambulatory Rotation
Ambulatory Psychiatry
Ambulatory Gynecology
Domestic Violence
Otolaryngology
Ophthalmology
Family Medicine Inpatient Rotation
Ambulatory Surgery electives
Ambulatory Internal Medicine electives
Ambulatory Pediatric electives

INTERNAL MEDICINE

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

Emergency Medicine
Any Internal Medicine elective
Ophthalmology
Anatomic Pathology
Radiology
Surgery (any elective)

MEDICINE-PEDIATRICS

(Internal Medicine and Pediatrics electives should be limited to 1-2 each).

Any Internal Medicine elective
Any Pediatric elective
Anesthesia
Emergency Medicine
Radiology
Women's Health
*ICU in either Pediatrics or Internal Medicine and Subinternship in the other

NEUROLOGY

Clinical Neurology
Neurology Research
Off-Campus Neurology elective

NEUROSURGERY

Anesthesiology
MICU/Critical Care
Diabetes, Endocrine and Metabolism
Neurology
Pediatric Neurology
Neurosurgery
Ophthalmology

NEUROSURGERY (Continued)

Orthopaedics
Otolaryngology
Pain Management
Preceptorial Neurosurgery
Neurosurgery Research

OBSTETRICS AND GYNECOLOGY

(Any OB-GYN elective)
Anesthesiology
Diabetes, Endocrine and Metabolism
Genetics and Metabolic Disease
Hematology/Oncology
Newborn Medicine
Adult Intensive Care
Nephrology
Urology
Women's Health

OPHTHALMOLOGY

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

ORTHOPAEDIC SURGERY AND REHABILITATION

Anesthesiology
Adult Cardiology
General Medicine
Diabetes, Endocrine and Metabolism
Neurology
Orthopaedics
Clinical Pathology
Pediatrics (any elective)
Radiology
Surgery (any elective)

OTOLARYNGOLOGY – HEAD AND NECK SURGERY

Anesthesiology
Critical Care
Diabetes, Endocrine and Metabolism
Adult Gastroenterology
General Surgery
Hematology/Oncology
Adult Pulmonary
Neurosurgery

OTOLARYNGOLOGY – HEAD AND NECK SURGERY (Continued)

Ophthalmology
Plastic Surgery
Radiation Therapy
Cardio-Thoracic Surgery
Pediatrics (any elective)

PATHOLOGY

General Medicine
Infectious Disease
Hematology/Oncology
Neurology
Obstetrics & Gynecology (any elective)
Pathology (any elective)
Internal Medicine electives
Pediatrics (any elective)
Radiology
Surgery (any elective)

PEDIATRICS - (Pediatric electives should be limited to 3-4).

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

PSYCHIATRY

Pain Management
Family Medicine or Internal Medicine
Pediatric Neurology or Developmental Pediatric Practicum
Emergency Medicine
Adult Ambulatory Neurology
Pediatrics (any elective)

RADIOLOGY

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

SURGERY

Anesthesiology

Emergency Room

Inpatient General Medicine

Adult Cardiology

Adult Gastroenterology

Infectious Disease

Surgical Pathology

Radiology

Pediatric Surgery

General Surgery

Surgery Preceptorship

Transplantation Surgery

THE ELECTIVE PROGRAM

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

Electives in Omaha

Students doing an elective in Omaha should consult the roster of electives and the descriptions provided in this handbook. The elective director may be consulted for specific information about the program and the Office of Admissions and Student Affairs is able to be of assistance with questions of a general nature.

Drop/Add Procedures

Sue Pope will develop a tentative schedule for each student. Final schedules will be prepared after individual conferences. Once registration takes place (through the Office of Academic Records), the elective schedule becomes a computer record and the drop/add procedures must be followed to make changes.

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

Drop/Add occurs monthly and you will be informed of the dates available to see/contact Sue to change your schedule.

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

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

OFF-CAMPUS ELECTIVES

The College of Medicine Curriculum Committee supports the value of off-campus electives in various specialties. Students may take no more than three (3) elective months off-campus during the clinical years, if approved by the appropriate department. The three months does not include the Family Medicine Preceptorship taken in the junior year of enrollment. Appropriate off-campus electives are those providing opportunities in areas in which the college cannot accommodate the number of students interested in the courses. Exploration of a potential residency is another logical reason for an off-campus elective.

International Electives:

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

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

The student makes formal application to the off-campus institution – either through VSAS (Visiting Student Application Service) or by written application. Once approved for the off-campus experience, the student must complete the “Application for Off-Campus Elective” form in its entirety. The student must be in good academic standing as determined by the Office of Admissions and Student Affairs. Section I and Section II of the form must be completed prior to return to the Office of Admissions and Student Affairs. Please supply complete information on the form!

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

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

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

**FMED-750 International Health
OPHT-725 International Ophthalmology Elective**

GUIDELINES for dropping electives are the same for off-campus electives as for those in Omaha, unless the host institution has more stringent requirements.

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

IT is the responsibility of the STUDENT at UNMC to supply the off-campus institution with an evaluation form for the off-campus elective experience. Please obtain the proper evaluation form from the sponsoring department at UNMC. Every department has their own evaluation form to be used.

STUDENTS requesting more than three months off-campus during their senior year must submit that request, **IN WRITING**, to the Curriculum Committee prior to the start of the senior year. Requests for more than three months made later than that date (i.e. during the year) will not be approved. The Committee will not approve additional off-campus time to investigate residencies or for personal or social reasons.

If you have any questions regarding the off-campus elective procedures, please do not hesitate to contact the Office of Admissions and Student Affairs.

Compliance with these guidelines will ensure efficient handling of your requests.

OFF-CAMPUS ELECTIVES – Instructions for completing paperwork:

Some off-campus institutions have their own off-campus elective application form that you must complete and submit, along with several items. This varies according to the off-campus institution. These are usually the institutions that do not participate in VSAS (Visiting Student Application Service).

The Office of Admissions and Student Affairs (Sue Pope) is the person that completes the application form where it indicates “school official, dean, or designee.” Many items are needed on these application forms and I am listing just a few below. I certify that you are:

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

TRANSCRIPTS: Many institutions request an official transcript of your medical school performance. The Office of Admissions and Student Affairs cannot provide this for you. You must order a transcript yourself by either visiting the Office of Academic Records (Student Life Center) or by visiting the student website: <https://net.unmc.edu/care>. You may have the Office of Academic Records send the transcript directly to the off-campus institution or to Sue Pope, Office of Admissions and Student Affairs, Zip 5527, for inclusion with your application.

HIPAA Training: If you need to provide certification of HIPAA training and/or any other training, you can access the same site <https://net.unmc.edu/care>. You would select the “**my requirements**” link from the menu. Click on the printer icon. A pop up window appears allowing you to print certificates for all completed requirements or you have the option to select specific requirements. Since I (Sue Pope) do not have access to this website, I cannot do this for you. If you have questions or encounter a problem with obtaining proof of your training, please call the Compliance Coordinator on campus (402-559-3929).

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

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

IMMUNIZATIONS: Many institutions want proof of immunizations. This information can be obtained from Tere Batt in Student Health. Tere can be reached at (402-559-5158) or by e-mail at tbatt@unmc.edu.

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

EVALUATION OF YOUR PERFORMANCE WHILE AT THE OFF-CAMPUS INSTITUTION:

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

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

If you have any questions concerning any of the above information and/or the procedures for off-campus electives, please do not hesitate to contact Sue Pope in the Office of Admissions and Student Affairs spope@unmc.edu or (402-559-4169).

Thank you!

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

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

Student Name: _____ Mailbox # in MSC _____

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

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

_____	_____
_____	_____
_____	Name of Evaluating Physician (if known):
_____	_____

Dates of Rotation:

Telephone #: _____

SECTION II: DEPARTMENTAL APPROVAL (completed by UNMC department)

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

Approved by: _____
(Signature)

Department: _____

Date: _____

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

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

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

Date: _____

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

GRADUATION REQUIREMENTS

Basic Clerkships (Junior Year)

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

Senior Year (10 months – July through April)

In addition to the ICE Senior Seminars requirement (Page 34) and four weeks of a Senior Selective, all students must take a minimum of seven (7) four-week rotations chosen from the elective lists. Nine (9) months of scheduled courses are required.

Vacation

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

BLS and ACLS

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

Patient Simulators

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

OSCE

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

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

USMLE Step 2 CK (Clinical Knowledge) & CS (Clinical Skills):

You must register to take by April 1 of your senior year.

PROCEDURAL SKILLS

A task force has developed a list of skills for which medical students must demonstrate proficiency, or minimal experience with, prior to graduation. Each student will be held responsible for documentation of specific clinical abilities/training for students graduating from the College of Medicine.

TIME OFF CLINICAL SERVICES

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

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

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

It is the student's responsibility to **ask** the clinical departments about planned absences.

If you are planning extensive interviewing, it may be best to schedule your month of vacation for interviewing.

INFORMATION FOR VISITING STUDENTS

Initial requests for elective time at the University of Nebraska Medical Center College of Medicine from students attending **U.S. medical schools** or **osteopathic schools** are done through **VSAS (Visiting Student Application Service)**.

Elective rotations are four weeks in length.

We do not offer any two week elective experiences.

Electives are not offered during the months of May or June.

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

Visiting students are not accepted into third year junior clerkships.

The University of Nebraska College of Medicine does not accept application for electives from students attending foreign medical schools and non-LCME accredited institutions. NO EXCEPTIONS !!

DEPARTMENTAL DESCRIPTIONS

Please pay particular attention to:

Prerequisites
Availability of Electives

There are some months some electives are not available!!

**Please follow directions
regarding
pre-arrangement of certain
electives.**

All electives are four semester hours credit.

M-ID-710 ICE Senior Seminars (REQUIRED COURSE FOR GRADUATION)

Credit Hours: 4

Number of Weeks: 4

Available times: February 2016 OR April 2016

Student Limit: February-65; April-65

Primary Faculty: Dr. Regan Taylor

This course is NOT available to visiting students.

Goals:

The M4 Integrated Clinical Experience (ICE) Senior Seminars are designed to:

Teach complex clinical issues at a point in students' careers when they have a clinical context for understanding the relevance of those issues.

Give students a time to discuss and reflect on their common professional experiences with their colleagues and faculty as they complete their medical school careers.

Assist students in their transition to residency and life as a physician.

Structure: This required course will only be offered during the months of February 2016 and April 2016. Each student will take mandatory (required) seminars, and additional elective seminars to satisfy their total credit hour requirement during the scheduled month. All students will participate in each mandatory seminar, which will be conducted during either 1 half day or 2 half day sessions per seminar.

The student will also be required to complete elective seminars. Elective seminars are conducted in either 1 half day or 2 half day sessions per seminar. Students will be given an opportunity to list their preferences of seminars and a lottery system will be used to determine placement of students in courses. During their scheduled seminar days, students will **not** be excused from Seminar attendance, except in the case of illness or bereavement.

Instruction and assessment: The instructional format utilizes small group, interactive, case-discussion format. Lecture time and assigned readings are limited, except as noted. Students will be assessed based on attendance and participation. ICE Senior Seminars will assign only "Pass" or "Fail" grades. Any sessions missed or not satisfactorily completed must be remediated prior to graduation.

ANESTHESIOLOGY

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

STUDENTS MUST MAKE ARRANGEMENTS WITH MELINDA MURDOCK BEFORE SIGNING UP FOR ALL ANESTHESIOLOGY ELECTIVES.

ANES-720 Anesthesia Clerkship

Periods Offered: Each four weeks except July

Student Limit: 8 – University Hospital or VA

Where to Report: All students will be notified via campus mail or e-mail one week prior to orientation of starting time and place of rotation.

Contact Person: Melinda Murdock (402-559-4175)

The purpose of this clerkship is to give the student an opportunity to gain skills in airway management, ventilation, monitoring and establishing intravenous access. At the end of the four weeks, the student will have a working knowledge of preoperative preparation of patients, intraoperative and postoperative care, and the basic principles of general anesthesia. 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.

Activity	Hours/Week
Rounds	0
Didactic conferences	12 conferences over four weeks
Independent learning	5
Research project	0
Independent patient care	0
OR case supervision	40

ANES-734 Pain Management

Dr. Michael Lankhorst

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: All students will be notified via campus mail or e-mail one week prior to orientation of starting time and place of rotation.

Contact Person: Melinda Murdock (402-559-4175)

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

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

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

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

ANES-799 Advanced Anesthesiology
Prerequisite: ANES-720 Anesthesia

This is an opportunity to select an area of interest. The student will spend a week of intense study and learning in any of several specialized areas, such as neuro-anesthesia, cardiovascular anesthesia, thoracic anesthesia, pediatric anesthesia, obstetrical anesthesia, or acute pain management (regional anesthesia). Generally, the student will select rotations on which they prefer to spend time in and will closely follow faculty and residents for a week at a time on each of the chosen rotations.

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

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

The Senior Selective Research month in Anesthesiology has certain requirements you must fulfill before you can proceed with research in the department. Therefore, your first point of contact for this selective is the clerkship coordinator, Melinda Murdock. She will explain the steps necessary to do a Senior Selective Research month in Anesthesiology. Once you have spoken with her, you will be directed to contact physicians in the department to inquire about working with them on a research project. You will need to begin this process several months in advance of your rotation to make sure you have proper regulatory training and your requirements for human research training have been met (CITI Training, added to IRB applications, etc.). Your training is required before you can help with any research. Failure to fulfill these requirements will result in a mandatory drop of the course in Anesthesiology.

EMERGENCY MEDICINE

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

All electives through this department are pre-arranged with Kelly Deerson through e-mail – kdeerson@unmc.edu.

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

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

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

COURSE GOALS

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

Goals:

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

EMED-733 Trauma Center/Emergency Department – University Hospital
Periods Offered: Each four weeks
Student Limit: 4
Where to Report: Emergency Department

This is an experience at the Nebraska Medical Center University Hospital, which will show the operation of an emergency department in a large community by full-time faculty of the College of Medicine and allows students direct patient contact under supervision of an attending physician. In addition, the rotation includes wound care and a procedure lab, extremity injury, and immobilization lab simulation, required reading (textbooks provided at no cost) and a post-test. Paramedic squad observation will be offered, but is not mandatory. For further information, contact Kelly Deerson or Dr. Amy Cutright at University Hospital (402-559-2571).

EMED-734 Hyperbaric and Undersea Medicine
Periods Offered: Each four weeks
Student Limit: 1
Staff: Dr. Jeffrey Cooper
Where to Report: Emergency Department

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

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

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

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

FAMILY MEDICINE

Chair – Michael Sitorius, M.D.
Junior Clerkship Director – Paul Paulman, M.D.
Curriculum Clerk – Jolene Wees
Room 2520 MSB
402-559-9327

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

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

Electives offered are directed at offering varying experiences in Family Medicine for those interested in the career field or others who are choosing more restricted fields and wish to broaden their experiences. A written case report must be submitted to the Family Medicine Department as a requirement of all Family Medicine coordinated clinical rotations.

FMED-705 Community Preceptorship (M3 requirement)

Periods Offered: Each 8 weeks

Semester Hours: 8

Prerequisite: Junior Status

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

FMED-710 Orientation (Family Medicine Accelerated Program ONLY)

Periods Offered: July only

FMED-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 – Contact Jolene Wees 402-559-9327

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

Activity	Hours/Week
Rounds	12 during Inpatient Week
Didactic conferences	4
Independent learning	4
Independent patient care	30

FMED-722 Family Health Center – Bellevue Medical Center Clerkship

Staff

Periods Offered: Every month except July

Student Limit: 1

Where to Report: Bellevue Medical Center – Contact Jolene Wees at 402-559-9327

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

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

FMED-723 Family Health Center – Clarkson West Clerkship

Dr. Douglas Inciarte and Staff

Periods Offered: Every month except June, July and August

Student Limit: 1

Where to Report: Oakview Medical Center (144th & West Center) – Contact Jolene Wees 402-559-9327

An exposure to all aspects of Family Medicine in a private office setting based at the Oakview 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.

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

FMED-727 Family Medicine Inpatient Service (UNMC)

Chief Resident and Staff

Periods Offered: Every month except July

Student Limit: 1

Where to Report: Chief Resident – Room 2589 MSB - Contact Jolene Wees at 402-559-9327

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

Activity	Hours/Week
Rounds	12
Didactic conferences	8
Independent learning	5
Research project	0
Independent patient care	20

FMED-728 Family Medicine Clerkship – Nebraska Methodist Hospital

PRE-ARRANGED THROUGH JOLENE WEES AT 402-559-9327

Dr. Joedy Istas and Staff

Periods Offered: Every month

Student Limit: 1

Where to Report: Call Polly Negrete (402-354-1947) 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.

Activity	Hours/Week
Rounds	5
Didactic conferences	0
Independent learning	10
Research project	0
Independent patient care	25

FMED-730 Family Medicine Clerkship-Lincoln General

PRE-ARRANGED THROUGH JOLENE WEES AT 402-559-9327 - NOT THROUGH THE FAMILY MEDICINE PROGRAM IN LINCOLN

Periods Offered: Every month

Student Limit: 2 (1-UNMC, 1-Other)

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 Jolene Wees in Family Medicine (402-559-9327). For housing information only, contact Susan Vrbka at the Lincoln Family Practice Program (402-327-6911)

Activity	Hours/Week
Rounds	15
Didactic conferences	5
Independent learning	2
Research project	1
Independent patient care	20

**FMED-732 Family Medicine Clerkship – Clarkson Residency Program
PRE-ARRANGED THROUGH BEV HILBURN (402-552-2045)**

Dr. Roger Massie

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: TBA (via letter) –Bev Hilburn at 402-552-2045. BOTH individuals need to know that you have pre-arranged this elective.

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.

Activity	Hours/Week
Rounds	Approximately 1.5 hours per day
Didactic conferences	3 days per week
Independent learning	Optional
Research project	No
Independent patient care	Variable – initial contact with supervision

FMED-733 Rural Training Track

PRE-ARRANGED THROUGH JOLENE WEES

Questions regarding the elective – Contact Dr. Jeff Harrison at 402-559-8252

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.

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

FMED-734 Offutt Air Force Base

PRE-ARRANGED THROUGH JOLENE WEES

Student must be a member of the Air Force

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 Medicine, 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 Medicine 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 Medicine Clinic and Ehrling Bergquist Hospital. These procedures include vasectomies, flexible sigmoidoscopies, exercise treadmill testing, and colposcopies.

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

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

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

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

**FMED-735 OneWorld Community Health Center
 PRE-ARRANGED THROUGH JOLENE WEES**

Dr. Alex Dworak

Periods Offered: Each four weeks

Student Limit: 1

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

This is a four week course for senior medical students who have basic conversational ability in Spanish. Students will be vetted by a OneWorld employee via telephone prior to rotation to ensure their Spanish capabilities are adequate to ensure a fulfilling rotation.

This elective is a community health center based Family Medicine rotation with greater than 50% of the patients speaking Spanish. Students will interview and examine patients, practicing and improving their Spanish while being supervised by the OneWorld attendings.

Grade is based on attendance, enthusiasm, discretion and professionalism with patients and support staff, written notes, and final case report (done in Spanish).

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

FMED-737 Domestic Violence
PRE-ARRANGED THROUGH JOLENE WEES

Periods Offered: Every four weeks

Staff: Dr. Paul Paulman - Healthcare Director; Domestic Violence Coordinating Council of Greater Omaha

Student Limit: 2 per month

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

Define domestic violence.

Describe the history, prevalence, incidence, prevention and treatment of domestic violence.

Complete a literature search on domestic violence and read selected journal articles and other material prior to starting other course activities (first week of rotation).

Participation in observational activities, including, but not limited to:

Two nights on call with domestic violence medical advocates in the UNMC Emergency Room.

Two eight-hour shifts with officers of the Omaha Police Department (OPD) Domestic Violence Unit.

One day with professionals and victims in the YWCA Women Against Violence (WAVE) program.

One day in a domestic violence shelter.

Two days attending court cases (Court Watch) involving victims of domestic violence and meeting with members of the Douglas County Attorney's Office who deal with domestic violence.

Participating in at least one meeting of a batterer's treatment group.

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

FMED-738 Preventive Medicine
PRE-ARRANGED THROUGH DR. JIM MEDDER

Staff: Dr. James Medder

Periods Offered: July only

Student Limit: By Arrangement

The overall goal of the preventive medicine elective is to enhance the student's knowledge, attitudes, and skills in preventive medicine at both the individual patient and population/community levels. This goal will be achieved by in-depth review and discussion of the guidelines of the U.S. Preventive Services Task Force and the Community Preventive Services Task Force using a Preventive Problem-Based Learning format. 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.

The student will:

Develop skills in the following areas: Performing a prevention-focused history, including identification of age and gender specific risk factors and previous screening tests/exams and immunizations;

Performing an appropriate prevention-focused physical exam; and Ordering appropriate screening tests, preventive medications and immunization.

Improve communication skills, specifically motivational and behavioral change counseling skills incorporating social and cultural environmental factors to improve the overall health of patients.

Discuss the risk factors and evidence-based interventions for the following topics and conditions:

Immunizations, preventive medications, cardiovascular disease, cancer, infectious diseases, metabolic diseases, cognitive function, depression, sexually transmitted diseases, contraception, substance use, physical activity, nutrition, injury prevention, and dental/oral health.

Obtain/critique/develop patient education materials.

Identify and utilize resources, as needed, including the full range of social, educational, civic, religious, and health care organizations (both formal and informal, private and public) that relate directly or indirectly to prevention and public health.

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

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

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

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

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

FMED-750 International Health Elective
Periods Offered: Each four weeks
Student Limit: By Arrangement
You must pre-arrange this elective with:
Jolene Wees, Department of Family Medicine (402-559-9327) AND
Sara Pirtle, International Health and Medical Education (402-559-2924)
Students will be unable to do the elective if Sara Pirtle has not been contacted.

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

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

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

Elective in Antarctica – The 7th Continent

Staff: Audrey Paulman, M.D.

Periods offered: January – March (One student per rotation)

The purpose of this experience will be to allow selected students to study about expedition medicine, participate in an Antarctic expedition, assist the shipboard physician with care of passengers and crew during the sea passages and landings, and provide a report to the UNMC faculty/residents following the expedition.

FMED-753 Competent Care for LGBT

Periods Offered: MARCH ONLY

Student Limit: By Arrangement

Faculty: Dr. Jim Medder and Dr. Gary Beck

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

Lesbian, gay, bisexual, and transgendered (LGBT) individuals have a set of unique health concerns and problems, including higher rates of depression, suicide attempts, alcoholism, cardiovascular disease, some cancers, and sexually transmitted diseases. Their special needs are often overlooked or ignored due to transparency of LGBT individuals and their avoidance of routine healthcare due to a real or imagined fear of discrimination and rejection by physicians. Although a significant segment of society is gay or lesbian, physicians receive minimal formal training in their care. The goal of this elective is to provide the specific training needed for physicians to effectively deal with the healthcare concerns and to provide medically and culturally competent healthcare to this sexual minority and vulnerable population. At the end of this four-week elective, students will be able to:

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

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

Instructional methods:

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

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

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

Each student will keep a reflective journal in which the student will record his/his observations and analysis of patients seen and sites visited. This journal will be reviewed with the student by faculty.

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

- PFLAG (Parents, Families, and Friends of Lesbians and Gays) meeting
- GSA (Gay Straight Alliance) meeting at Creighton/UNO
- Meeting with legal counsel to address access to care and others concerns regarding insurance coverage

- Weekend training with NAP (Nebraska AIDS Project) and counseling/testing site experience at either NAP or Douglas County Health Department
- Palliative care for those with AIDS

Activity	Hours/Week
Didactic conferences	6
Independent learning	12
Reflective journal	2
Patient care	12
Agency site visits	8

FMED-760 Private Practice Office Clerkship – Omaha

Periods Offered: Every month

Student Limit: By Arrangement

Where to Report: T.B.A.

Contact: Jolene Wees 402-559-9327

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

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

FMED-761 Off-Campus Family Medicine Elective

Periods Offered: Every month

Student Limit: By Arrangement

Contact Jolene Wees 402-559-9327

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

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

FMED-762 Migratory Health

Periods Offered: April through July

Student Limit: 1

Where to Report: T.B.A.

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

FMED-766 Community Health Care (MECO)

Periods Offered: Every four or eight weeks

Student Limit: By Arrangement

Where to Report: T.B.A.

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

FMED-799 Research Project in Family Medicine

Periods Offered: Every four weeks

Student Limit: By permission

Contact Jenenne Geske at 402-559-6758

The student may select a project in which he is particularly interested and with the approval of the faculty, may pursue this project intensively for four weeks. Such projects might be concerned with the delivery of health care or with the value of screening procedures. Faculty advice will be given and the research project will be structured.

INTERNAL MEDICINE

Interim Chair: Debra Romberger, M.D.
Student Clerkship Director/David V. O'Dell, M.D.
Sheila Rosenberg, Student Coordinator
MSB 5517
402-559-9386

IMED-705 Internal Medicine Required Clerkship (M3 requirement)

Staff at UNMC and OVAH

Periods Offered: Each 12 weeks

Student Limit: 30-33

Semester Hours: 12

Where to Report: UH5412C

Contact Person: Sheila Rosenberg (402-559-9386)

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

IMED-714 Lincoln/Omaha Dermatology Clerkship

This elective must be pre-arranged with Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

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

Student Limit: 1

Where to Report: Dr. Largen/Lincoln/1-402-423-7000

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

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

IMED-715 Outpatient General Internal Medicine Clerkship

Drs. Osterholm, Eilts & Sheehan – The Nebraska Medical Center

Periods offered: Each four weeks

Student Limit: 1 to each service

Where to Report: Contact Dr. Osterholm (402-391-3800)

An outpatient general internal medicine experience.

Activity	Hours/Week
Rounds	10
Didactic conferences	10
Independent learning	0
Research project	0
Independent patient care	0
Private Office	10

**IMED-716 Outpatient General Medicine Clerkship – Methodist
Dr. Lewis – Methodist Hospital
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Contact Dr. Lewis (402-393-3616)**

An outpatient general internal medicine experience.

Activity	Hours/Week
Rounds	12
Didactic conferences	0
Independent learning	0
Research project	0
Independent patient care	30

**IMED-717 Omaha VAMC – Critical Care Medicine
Dr. Craig Piquette and Omaha VA Medical Center ICU Staff
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Omaha VA Medical Center ICU, 2nd floor, 8:00 a.m. Check with the Nebraska
Supervising Resident for assignment.
Call Sheryl Latenser for Attending Schedule, 402-943-5515.**

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

Objectives

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

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

Clinical situations encountered on for this rotation include management of respiratory failure, acute coronary syndrome, acute and chronic renal failure and hyperglycemia among others. The students will be expected to learn interpretations of chest radiographs and common dysrhythmias. They will participate in many bedside procedures and they will be expected to be able to evaluate and recognize patients with a variety of life threatening disorders and participate in their management. The student will be enrolled in a Blackboard Critical Care Medicine course and will be expected to read through all the CCM educational material posted on Blackboard and to attend any scheduled didactic lectures. Honors work will require enthusiasm and initiative, as well as at least one student presentation to the CCM team of a clinical topic related to a clinical problem they have evaluated.

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

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

IMED-718 History & Physical Teaching Assistantship for M1 Students

Periods Offered: Year Round (July – April)

Student Limit: Varies

Faculty Contact: Dr. Regan Taylor

Staff Contact: Ron Bechdolt at 402-559-8689

This elective is pre-arranged with Ron Bechdolt and no longer meets the senior selective requirement for the senior year.

You will be assigned to a small group of m1 students in H&P practice small groups. You will also assist in other M1 and M2 H&P teaching assessment activities. Your level of participation will depend on the number of planned activities, the number of M4s participating and individual and group schedules.

M4 Student Requirements (Approximate)

First Semester

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

No more than ~29 hours

M4 Student Requirements (Approximate)

Second Semester

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

No more than ~42 hours

Total* - 71 hours

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

IMED-720 Adult Cardiology
UNMC – Dr. John Windle and Staff
Periods Offered: Each four weeks
Student Limit: 4
Where to Report: UH 6162 at 8:30 a.m.
Contact Person: Tuwanda Mayberry (402-559-9268)

Educational Goals and Objectives:

Knowledge Base

The student will:

Begin to develop the acumen to obtain a detailed history from cardiac patients focusing on the pertinent aspects pertaining to the particular diagnosis or chief complaint as well as other medical diagnoses that either are included in the differential or will have an impact on the evaluation and treatment of the cardiac problem. Specific symptom complexes include but are not limited to:

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

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

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

Correlate the physical examination in a “bidirectional” manner. The student will learn how the history directs the key points of the physical examination and similarly how the examination aids in coming to the correct diagnosis.

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

Develop and understand the rationale for cost-effective and appropriate testing required to confirm a diagnosis and implement treatment.

Acquired Skills

The student will apply the knowing base to:

Perform the cardiac examination.

Interpret the electrocardiogram

Learn how to perform and write-up a good history and physical

Learn basic coronary anatomy and the correlation to the ECG in ischemic syndromes

Learn the appropriate rationale for ordering tests for the cardiac evaluation

The Cardiology Service

The UNMC Service

The University service is both a primary and consultative service. It generally consists of a faculty member and a fellow of which the faculty rotate in two-week blocks. The fellow is on the service for the entire month. There are 3-4 internal medicine residents, Emergency Medicine, Family Medicine or Pharmacy residents on the inpatient service. A nurse coordinator is also part of the team. The team usually meets for pre-rounds in the conference room on the 7th floor of the Clarkson Tower with the fellow on the service. Attending rounds usually follow but may vary depending on the faculty member.

All students will have a pager for the month, which will be distributed by the Education Coordinator. Students will generally be assigned no more than 3-4 patients while on the service which they will follow until discharge or the student rotates off the service. The student should write daily notes on the patient as designated by the fellow on the service who essentially will be the “team leader.”

Students are expected to attend at least four conferences per month and review assigned articles. ECG review will be scheduled as time permits. Students are not required to round on the weekends but can do so if they so choose.

Educational resources

A list of relevant reading sources will be provided by the fellow.

Evaluations

The faculty, fellow and residents will evaluate the student by standard process. There is no examination at the end of the rotation. The students will be evaluated on their ability to be a team member and their skills for evaluation and treatment of the patients they follow.

IMED-720A Adult Cardiology – Immanuel Hospital

Dr. Sojka and Staff

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Report to 3N of Professional Center. Take Procedure Center elevators. Call Rhonda Dennis at 402-960-4687.

You must pre-arrange this elective with Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386. There is additional paperwork to be completed for the hospital so it is advisable to start this paperwork 2-3 months in advance of your scheduled date.

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

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

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

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

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

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

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

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

Each student will have direct management responsibility for care of patients on the Diabetes, Endocrinology and Metabolism Service under the supervision of house officers, Endocrine fellows, and staff. Particular emphasis is placed on the diagnosis and treatment of those endocrine disorders encountered with the greatest frequency in the practice of medicine; specifically, diabetes mellitus and thyroid diseases. There will be adequate opportunity to acquire a working understanding of the complex diagnostic approaches for other endocrine disorders (adrenal, pituitary, reproductive problems, lipid disorders and osteoporosis). Both outpatient and inpatient experiences are included, with time for clinical discussions.

Activity	Hours/Week
Rounds	12
Didactic conferences	4
Independent learning	3
Research project	0
Independent patient care	4
Clinic	20

IMED-724 Gastroenterology
UNMC - - Dr. Mailliard and Division Faculty
VAMC – As above
Periods Offered: Each four weeks (estimated hours 7:00 a.m. – 5:30 p.m. M-F)
Student Limit: 2

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

The Gastroenterology and Hepatology elective emphasizes the correlation of the basic science principles of physiology, pharmacology, and pathologic anatomy to clinical consultative gastroenterology. The two medical center locations utilize an inpatient consult service; neither are primary care services. Active student participation in the patient management team, in both ambulatory clinic and hospital settings, is required and will emphasize bedside discussion, as well as attendance at regular scheduled conferences. There will be one position available monthly at each medical center.

IMED-726 Infectious Disease**UNMC – Drs. Smith, Rupp, Swindells, Gendelman, Freifeld, Kalil, D. Florescu, A. Hewlett, Sandkovsky, Van Schooneveld (Adult ID)****Periods Offered: Each four weeks****Student Limit: 2****Where to Report: UNMC – Call 402-559-8650 for information****Elective Contact: Dr. Van Schooneveld (402-559-8650)**

During this rotation students spend time on the general Infectious Disease consult service. They will gain practical experience in the evaluation and management of numerous common and unusual infections along with training in the pathogenesis and prevention of infections. A series of formal, one hour didactic sessions on ID topics (e.g. antibiotics, outpatient ID, infections in immunocompromised hosts, nosocomial infections, and HIV) is presented during the month. Clinical microbiology training is also included with both lecture and lab time. Students attend and may have the opportunity to present at the weekly City-wide Infectious Disease Care Conference where unusual or interesting ID cases are presented and discussed. Time in the HIV/AIDS clinic is also a component.

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

IMED-727 Renal**UNMC – Drs. Plumb, M. Florescu and Miles****Periods Offered: Each four weeks****Student Limit: 3****Where to Report: UNMC – Contact Lisa Allen at 402-559-9227**

The nephrology rotation is offered continuously as a four-week rotation at the University of Nebraska Medical Center. Students participate in the evaluation and treatment of inpatients and outpatients with renal disease, hypertension, and electrolyte/acid-base disorders. Daily inpatient rounds are oriented to bedside teaching and are supplemented by a seminar and lecture series on the range of nephrology topics important for primary care and specialists. Students see patients for initial evaluation and follow-up with the nephrology team. Students are encouraged to participate in any of the six nephrology and transplant clinics that are available weekly. There are at least three scheduled conferences every week. By special request, additional students may take the nephrology rotation as a research or basic science reading course under the direction of an individual faculty member.

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, Neumann, D. Goldner, B. Poole and Deshmukh

Periods Offered: Each four weeks

Student Limit: 1

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

Contact Person: Tavi at 402-888-1645

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

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 (402-559-3965), Dr. Debra Romberger and Dr. William Lyons

Contact Person: Travis Weyant, 402-559-3964

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

Activities include:

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

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

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

Activity	Hours/Week
Rounds (Palliative Care at VA)	4-6
Didactic conferences	2
Independent learning	16
Oral presentation prep	2
Independent patient care	0
Home Visits	10
Site Visits	4
Hospice Administration	1

IMED-730 Medical Oncology/Hematology

Drs. Armitage, Bierman, Bociek, Cowan, Ganti, Grem, Gundabolu, Kessinger, Maness, Marr, Reed, Schwarz, Shonka, Vose, and Wang

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Contact Shaun Capurro 402-559-5388, Lied Transplant Center 8th Floor

Clinic Contact: Katie Gross at 402-559-7983

To offer a comprehensive experience in the Division of Oncology/Hematology, the course now offers a one-month inpatient and outpatient rotation that emphasizes evaluation and decision-making in these two subspecialty fields. Over the one month elective there is a two-week rotation on the general oncology inpatient service, one week on the hematology consult service and numerous outpatient clinics throughout the month. The clinics are somewhat subject-oriented and sometimes are conducted simultaneously. Areas from which to select include lymphoma, breast cancer, lung cancer, GI, GU, head and neck cancer, non-malignant hematology including coagulation disorders, and CNS/brain cancer. A half day is also spent in the cancer treatment area, pharmacy and radiation oncology.

Opportunities to observe and perform special procedures including bone marrow aspiration, bone marrow biopsy, paracentesis and thoracentesis may also occur. Core curriculum subjects are also discussed for 30 minutes before inpatient rounds with residents several times each week. There are also one hour course conferences with the fellows once or twice a week that the student can attend. In addition, students are welcome to attend multiple multidisciplinary oncology case conferences, hematology morphology conferences and various other didactic teaching happening in the section. Students are also assigned tasks and given opportunities for independent learning and presentations.

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

IMED-733 Pulmonary Medicine
UNMC – Dr. Craig Piquette and Staff
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: University Tower UT 5216, 9:00 a.m.
Contact Person: Whitney Dailey, 402-559-4088

Objectives

- Outline the daily inpatient care of a patient with cystic fibrosis
- Evaluate and outline management of a patient with COPD exacerbation
- Outline the work-up of a patient presenting with interstitial lung disease
- Describe the evaluation of the level of control of asthma
- Evaluate and outline management of a patient with chronic cough

This elective is designed to provide the student with a practical background in Pulmonary Medicine. The students on the service will evaluate hospitalized pulmonary patients with the Pulmonary Consult Team; perform inpatient pulmonary consultations and evaluate patients in the UNMC Pulmonary Clinic. The course includes experience in the management of both simple and complex pulmonary problems, including primary care of cystic fibrosis, pulmonary hypertension and lung transplant patients. The students will review interpretation of arterial blood gases and pulmonary function tests with residents and fellows. A Blackboard course on Pulmonary Medicine is available and a number of didactic lectures are scheduled usually at 11:00 a.m. as a topic review; the Powerpoint slides are also available on the Blackboard site. Honors work will require enthusiasm and initiative, as well as student presentations to the Pulmonary Team of at least one clinical topic related to a clinical problem as selected by the student. This pulmonary rotation is appropriate for a motivated student seeking a broad experience in Pulmonary Medicine.

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

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

Objectives

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

This rotation offers opportunity for management of critically ill patients, working closely with an ICU supervisory resident, the pulmonary and critical care fellow and attending physician. Clinical expectations will include responsibility for all patients assigned to their care (maximum of 2), writing a note each day on their patients to be cosigned by the attending physician, active participation on rounds, and taking in-house overnight call, if desired, with their supervising resident.

Clinical situations encountered on this rotation include management of respiratory failure, acute and chronic renal failure and hyperglycemia among others. Students may also have an opportunity to assist in the care of patients with acute stroke, subarachnoid hemorrhage, acute heart failure and those with ventricular assist devices. The students will be expected to learn interpretation of chest radiographs and common dysrhythmias. They will participate in many bedside procedures and they will be expected to be able to evaluate and recognize patients with a variety of life threatening disorders and participate in their management. There are three separate Critical Care Medicine teams, each with an attending, a critical care fellow, as well as residents and physician extenders. Each team provides a difference experience, so students will rotate at mid-month to provide the broadest experience possible. The student will be enrolled in a Blackboard Critical Care Medicine Course and will be expected to read through all the CCM educational material posted on Blackboard and to attend any scheduled didactic lectures. Honors work will require enthusiasm and initiative, as well as student a presentation to the CCM team of a clinical topic chosen by the student. In addition, attending physicians on each team will schedule with all the students, one hour of student-only contact per week to review presentations and review clinical topics of interest. All students are expected to attend these sessions unless excused. This ICU rotation is appropriate for a motivated student seeking a high level of intensity of exposure to critical care medicine.

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

IMED-735 Honors Program in Internal Medicine

UNMC Chief Resident, OVAH Chief Resident

Periods Offered: Each four weeks (Except July/November/December/January)

Student Limit: 1 per rotation

Pre-requisite: Internal Medicine Required Clerkship with Honors grade

Where to Report: UNMC-MSB Room 5515, 8:00 a.m.; OVAH-Chief's Office, Room 7006, 7th Floor, 8:00 a.m.

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

This is a one-on-one comprehensive review of Internal Medicine. Each day the student will meet with the Chief Resident to review pertinent Internal Medicine topics. A typical day would consist of attending and participating in morning report, giving a brief presentation on the morning report topic to the residents, and meeting with the team for informal discussion. Once the Chief finds out the case for the day, the information will be passed on to the student to start to work on the next day's presentation. Additional educational opportunities may include journal articles and presentations to the chief. These topics are at the discretion of the student and the Chief Resident. They will be customized to meet the students' educational objectives. The student will also be responsible for attending morning report, noon conferences and Grand Rounds.

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

IMED-739 Occupational and Environmental Medicine

Drs. Susanna Von Essen and staff

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Call 402-559-4021

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

The remaining twenty hours per week will be divided between:

- Case study review
- Using established learning modules including computer-aided instruction
- One industrial site visit (plant tour)
- One hour of didactic instruction per day

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

Outcomes of the elective will be measured in three ways:

- Knowledge of principles of occupational and environmental medicine pre- and post-test;
- Attitude measurement of students regarding occupational and environmental medicine post-course; and
- Clinical skills at addressing clinic cases with occupational and environmental aspects using standardized patients post-course.

Upon completion of this elective, the students will:

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

Activity	Hours/Week
Rounds	0
Didactic conferences	6
Independent learning	5
Research project	0
Independent patient care	3
Plant Tours	2

IMED-741 Introduction to Inpatient Rehabilitation

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

Periods Offered: Each four weeks

Student Limit: 1

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

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

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

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

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

The student will participate in the interdisciplinary team rounds and conferences and become actively involved by physical therapy, occupational therapy, speech-language pathology and psychology. The student will have the opportunity to participate in research activities being conducted at Madonna's Institute for Rehabilitation Science and Engineering. The three centers in the Institute are the *Center for Movement with Gain and Motion Lab* and the *Seating and Positioning Lab*, the *Center for Communication with Speech Physiology Lab*, the *Assistive Technology Lab* and the *swallowing lab* and the *Center for Outcomes and Informatics*.

The MRH medical director will complete the evaluation of the student's performance. The staff physiatrists will provide information on the student's attendance, participation, case presentations and breadth of knowledge.

Required reading: *Handbook of Physical Medicine and Rehabilitation*, Susan A. Garrison, M.D. (provided by MRH).

IMED-743 Consultative Medicine

Drs. Chad Vokoun, Micah Beachy, Andrew Vasey, and Jason Shiffermiller

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Call Dr. Vokoun at 402-559-7299, e-mail: cvokoun@unmc.edu

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

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

Activity	Hours/Week
Rounds	8
Didactic conferences	2
Independent learning	10
Research project	0
Independent patient care	22 (clinic and inpatient)

IMED-744 Outpatient Geriatrics – The Complete Geriatric Experience

Dr. Edward Vandenberg and staff

Periods Offered: Each four weeks

Student Limit: Varies

Where to Report: Contact Travis Weyant (402-559-3964) / tweyant@unmc.edu

This elective must be pre-arranged with Travis Weyant (402-559-3964)

This course is designed for students who anticipate careers in primary care and those whose careers will involve substantial outpatient responsibilities (most Internal Medicine subspecialties, neurology, psychiatry, physiatry, hospice and palliative care). Under health care reform an increasing proportion of care is occurring in outpatient settings, and individuals completing this experience will have a jumpstart on the necessary skills to thrive in outpatient care settings during residency. The medical knowledge conveyed through didactic and clinical experiences focuses on chronic disease management, team care, and health promotion. The faculty teaching and supervising this course are drawn from geriatrics and from hospice and palliative care. The venues of care are the following: Home Based Primary Care, Hospital and Palliative Care, Skilled Nursing Facility / Long Term Care, Geriatric Assessment and Primary Care Clinics and primary Care Medicine Home.

IMED-746 Women's Health

Faculty: Drs. Bonnema, Boerner and Taylor

Periods Offered: Each four weeks EXCEPT December

Student Limit: 2

Where to Report: Please contact Dr. Bonnema; Call 402-559-7299 for information

This elective is pre-arranged through Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

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

Additionally, the student will present an evidenced-based, clinically appraised journal club article at the end of the month. Lectures on women's health topics may be provided during the month by participating faculty. The student will also be encouraged to attend scheduled lectures and conferences in Internal Medicine or OB/GYN as their clinical schedule allows.

IMED-749 Field Epidemiology at Cedar Point

Faculty: Dr. Devin Nickol

Periods Offered: TBA

Student Limit: T.B.A.

Where to Report: Please contact Dr. Devin Nickol

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

Practicing evidence-based medicine requires familiarity with the basic principles of epidemiology. This three-week summer course allows students to develop a background in these principles, using as its classroom the prairies, ponds, and fields of western Nebraska. Students engage in observation and experimentation while enjoying the beautiful natural setting of UNL's Cedar Point Biological Field Station, located near Ogallala and Lake McConaughy. Collecting trips, laboratory experiments and a group project offer unique, out-of-the-classroom learning opportunities. Visit <http://www.fieldepi.com> for more information about this course and the facilities at Cedar Point. Students will need to obtain a copy of the required text (Epidemiology by Leon Gordis, fourth edition) prior to the rotation.

Students will develop an understanding of the epidemiological and biostatistical principles traditionally taught in an introductory-level epidemiology course. Students will develop skills in collection, dissection and laboratory experimentation. Students will develop an understanding of how classroom principles can be translated into real-world observation and experimentation. Instructional methods will include lecture, independent reading, field collection and observation trips and laboratory experiments. Computer-based methods may be included as well. Structured class time occurs Monday through Friday. Over the time period, roughly one third of class time will be spent in lecture format and two thirds in field/lab exercises. Evening reading assignments will be provided for most days. Student performance will be assessed using daily quizzes over assigned reading, class/lab participation and a final group project.

IMED-751 Rheumatology

Faculty: Drs. James O'Dell, Lynell Klassen, Gerald Moore, Ted Mikuls, Amy Cannella and Alan Erickson, and Micheline Hearth-Holmes

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Contact Renee Crosby in the Rheumatology Office, 402-559-7288

This elective is pre-arranged through Sheila Rosenberg in the Department of Internal Medicine, 402-559-9386.

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

Activity	Hours/Week
Rounds	6
Didactic conferences	8
Independent learning	12
Research project	Not applicable
Independent patient care	7
Patient care with attending	7

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-763 VA Emergency Medicine
Faculty: Dr. Scott Menolascino
Periods Offered: Each four weeks
Student Limit: Variable – By Arrangement with Dr. Menolascino
This elective is pre-arranged with Dr. Menolascino and Sheila Rosenberg

Patients are assigned to students and residents on a rotational basis according to when they arrive in the department. Patients will be a mix of ambulatory patients, ambulance arrivals and clearance of both the acute psychiatric patient and the patient wishing to undergo substance abuse treatment. There will be a wide variety of medical conditions seen including acute cardiac, pulmonary, gastrointestinal, neurological, and infectious disease. There will also be potential for many procedures including ABG's, arthrocentesis, paracentesis, thoracentesis, and central lines.

IMED-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: 3

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

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

This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 4-8 general medicine patients. The student will admit, evaluate, manage and discharge typical medicine patients, all supervised directly by a senior medical resident and an attending physician. Admissions to the sub intern will be limited and the student will be expected to take 3-4 nights of in-house call during the month.

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

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

This clerkship offers an excellent opportunity for senior medical students to assume primary responsibility for the management of 4-8 general medicine patients. The student will admit, evaluate, manage and discharge typical medicine patients, all supervised directly by a senior medical resident and an attending physician. Admissions to the sub intern will be limited and the student will be expected to take 3-4 nights of in-house call during the month. The student will also be responsible for

attending morning teaching rounds, noon conferences, and Internal Medicine Grand Rounds during the time of the rotation.

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

IMED-798 Internal Medicine Research Elective in Infectious Diseases

UNMC Staff: Drs. Smith, Rupp, Swindells, Gendelman, Kalil, Freifeld, A. Hewlett, Sandkovsky, Van Schoonveld, and D. Florescu (Adult ID)

Periods Offered: Each four weeks

Where to Report: Infectious Diseases Secretary (402-559-8650)

Contact Person: Dr. Trevor VanSchooneveld (tvanscho@unmc.edu)

This elective offers students the opportunity to work with faculty members in the Division of Infectious Diseases on a range of research projects. There are numerous projects available in the areas of HIV/AIDS, Transplant ID, Oncology ID, Antimicrobial Stewardship, Healthcare Epidemiology, Orthopaedic ID, Microbiology, and many other areas. Any infectious disease related project will be considered under the direction of an ID staff physician. Students interested in this rotation are encouraged to contact the ID division to discuss planning of projects.

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

IMED-799 Research in Medicine

Internal Medicine Staff

Periods Offered: Each four or eight weeks

Student Limit: By Arrangement

NEUROLOGICAL SCIENCES

Chair/Matthew Rizzo, M.D.
Elective Director/Diego Torres-Russotto, M.D., drtorres@unmc.edu
Student Coordinator/Sarah Kepple, sarah.kepple@unmc.edu
CTS – 2nd Floor
402-559-5804

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

NEUR-736 Clinical Neurology Elective
Periods Offered: Each four weeks
Student Limit: 5

UNMC Faculty - Drs. Bertoni, Fayad, Fernandez, Frankel, Hellman, Madhavan, McLaughlin, Murman, Murr, Thaisetthawatkul, Torres-Russotto, and Zabab
VA: Drs. Bertoni, Fernandes Hellman

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

This senior elective is, in fact, a Sub-Internship in Clinical Neurology. Although weekends and nights are off, this rotation attempts to mimic Neurology residents’ life while providing a fully supervised learning environment. The rotation includes both inpatient and outpatient experience. Multiple educational venues will be used to enhance the learning activities, including formal lectures, bedside teaching, and Blackboard based learning modules. Although most activities happen at UNMC, some students have the opportunity to rotate at the VA Neurology Service and clinic.

Activity	Hours/Week
Direct patient care	10
Bedside teaching & Teaching rounds	16
Didactic conferences	4
Independent learning	10

NEUR-761 Off-Campus Neurology Elective
Periods Offered: Each four weeks
Student Limit: No pre-specified limit

Arrangements must be made by the student to get the outside rotation offer. The rotation then has to be recommended by the student’s advisor and approved by the Elective Director (Dr. Torres) at least two months in advance of the elective date.

NEUR-790 Clinical Research Elective in Neurology
Periods Offered: Each four weeks
Student Limit: No pre-specified limit

This elective offers students an opportunity to work under close mentorship from our faculty on clinical neurology research. There are many on-going and new projects available at all times. The student would be able to learn basic knowledge on clinical research. The learning program would be designed between the mentor and the student and then approved by the Elective Director (Dr. Torres). If you would like to participate in this opportunity, please contact your choice of the Neurological Sciences faculty listed below. If you are not sure with whom you would like to work with

on research, please feel free to contact Dr. Torres (drtorres@unmc.edu), who will be happy to help you find the right mentor.

Previous rotating students have been able to get abstracts accepted in National and International meetings, and present their posters, and even publish articles. Therefore, we feel that this opportunity would help students interested in pursuing a career in any of the neuro-related residencies, including Neurology, Neurosurgery, Neuroradiology, Neuropathology, etc.

FACULTY: Drs. Bertoni, Fayad, Fernandes, Frankel, Hellman, Madhavan, McLaughlin, Murman, Murr, Rizzo, Thsisetthawatkul, Torrest-Russotto, Zabad

If you know which faculty member you would like to have as your mentor during this rotation, you must contact that faculty to obtain approval; then Sarah Kepple to set up your rotation. If the student would like to do research in Neurology but needs guidance in regards to which mentor to choose, please contact Student Coordinator Sarah Kepple to set up a preliminary meeting with Dr. Torres to review options and get the best arrangements for the student's particular interest.

This elective offers students an opportunity to work with faculty members in clinical research of neurological diseases and to participate in new or ongoing research projects.

OBSTETRICS AND GYNECOLOGY

Carl V. Smith, M.D., Chair, UT 5248H
Contact Faculty: Karen Carlson, M.D.
T.B.A., Undergraduate Coordinator, UT 4105, 402-559-8133

**OBY-705 Required Junior Clerkship in Obstetrics and Gynecology
(M3 requirement)
Periods Offered: Each six weeks
Student Limit: 18
Semester Hours: 6**

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

**OBY-710 Advanced Outpatient Obstetrics and Gynecology
Karen Carlson, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: UT 4105
This elective must be pre-arranged with T.B.A..**

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

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

**OBY-720 Advanced Inpatient Obstetrics
Paul G. Tomich, M.D.
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: UT 4105
This elective must be pre-arranged with T.B.A..**

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

OBGY-721 Gynecologic Oncology

Steve Remmenga, M.D.

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: UT 4105

This elective must be pre-arranged with T.B.A..

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

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

OBGY-722 Reproductive Endocrinology and Infertility

Victoria Maclin, M.D.

Periods Offered: Each four weeks

Student Limit: 1

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

This elective must be pre-arranged with T.B.A..

This elective is not available to visiting students.

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

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

OBGY-725 Maternal Fetal Medicine**Paul G. Tomich, M.D.****Periods Offered: Each four weeks****Student Limit: 1****Where to Report: UT 4105****This elective must be pre-arranged with T.B.A..**

A Nebraska Medical Center service including both inpatient and outpatient activities. Students will evaluate patients in clinics, assist in ultrasound evaluation of patients as assigned, assist with operative procedures and participate in daily rounds on the Maternal Fetal Medicine service. Students will also participate in conferences including Perinatal Conference, Grand Rounds and Case Conferences on a weekly basis. A presentation on a relevant topic chosen by the student is encouraged during the rotation.

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

OBGY-726 Ultrasound**Paul G. Tomich, M.D.****Periods Offered: Each four weeks****Student Limit: 1****Where to Report: UT 4105****This elective must be pre-arranged with T.B.A..**

An outpatient ultrasound experience working with the sonographers and MFM physicians in the Prenatal Diagnostic Center at the Olson Center for Women's Health. 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.

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

OBGY-760 Off-Campus Obstetrics and Gynecology Elective**Karen Carlson, M.D.****Periods Offered: Each four weeks****Student Limit: Must be pre-arranged with T.B.A..**

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

OPHTHALMOLOGY

Chair/Quan Nguyen, M.D.
Marlene Novotny, Curriculum Clerk
Truhlsen Eye Institute – 3902 Leavenworth Street
402-559-4276

OPHT-720 Clinical Ophthalmology

Dr. Diana Do - UNH/OVAH

Periods Offered: Each four weeks

Student Limit: 2

Where to Report: Truhlsen Eye Institute, 3902 Leavenworth Street, 8:00 a.m.

For additional information, contact Susan Jeanneret at sjeanner@unmc.edu or 402-559-1868.

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

1. Ophthalmic history taking and its correlation with the general medical history;
2. Functional evaluation of the visual system including determination of near and distance visual acuity, visual field, color vision and other testing procedures designed to detect dysfunction of any components of the visual system;
3. Direct examination of the visual system including pupillary exam, measurement of intraocular pressure, the use and limitations of slit-lamp, direct and indirect ophthalmoscopy; and
4. Observation and participation in ocular surgical procedures.

The goal of this program is to lay a firm foundation of basic knowledge and diagnostic skill, which will aid the non-ophthalmologist in evaluating disease processes of the eye, adnexa, and visual pathways. Such knowledge will make ophthalmic disorders or ophthalmic manifestations of systemic diseases.

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

OPHT-725 International Ophthalmology Elective

Faculty Contact: Michael R. Feilmeier, M.D.

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

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

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

Students will be assessed based upon:

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

OPHT-740 Ophthalmology/Otolaryngology Elective

Drs. Diana Do (Ophthalmology) and Dr. William Lydiatt (Otolaryngology/Head and Neck Surgery)

Periods Offered: Each four weeks EXCEPT July or August (not offered then)

Student Limit: 4

Where to Report: Varies – Contact Susan Jeanneret (Department of Ophthalmology), 402-559-1868

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

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

OPHT-760 Off-Campus Elective in Ophthalmology

Periods Offered: Each four weeks

Student Limit: By Arrangement

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

OPHT-790 Research in Ophthalmology

Periods Offered: By Arrangement

Student Limit: By Arrangement

ORTHOPAEDIC SURGERY AND REHABILITATION

Chair/Kevin L. Garvin, M.D.
Academic Coordinator/Curtis W. Hartman, M.D.
Gerianne Miller, Curriculum Coordinator
2544 MSB, 402-559-2258

ORTH-722 Orthopaedic Surgery

Periods Offered: Each four weeks

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

This elective must be pre-arranged with Geri Miller at gmill@unmc.edu .

For additional information please contact Geri Miller.

Student Limit: 5

Black Team (Hand) – 1 student

Blue Team (Spine) – 1 student

Gold Team (Adult Reconstruction) – 1 student

Green Team (Trauma) – 1 student

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

Faculty per team:

Black Team – (Hand): Dr. Philipp Streubel)

Blue Team (Spine): Dr. Chris Cornett

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

Green Team – (Trauma): Drs. Matthew Morimino, Justin Siebler, and Miguel Daccarett

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

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

Activity	Hours/Weeks
Rounds	6-8
Didactic conferences	5
Independent learning	6
Research project	Varies
Clinic	8-10 hours
Surgery	15-20 hours

ORTH-723 Pediatric Orthopaedic Service

Periods Offered: Each four weeks

Where to Report: Varies – Contact Stephanie Jensen at sjensen@childrensomaha.org or 402-955-6317 for details.

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

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

Student Limit: 1

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

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

ORTH-762 Off-Campus Orthopaedic Surgery Elective

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

ORTH-799 Orthopaedic Surgery Research

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

OTOLARYNGOLOGY – HEAD AND NECK SURGERY

Chair/Dr. Dwight T. Jones
Vanessa Larson, Residency Program Coordinator
3110 University Hospital
402-559-7105

The purpose of the elective in Otolaryngology is to acquaint the student with the diagnostic scope and surgical problems relative to the specialty. It is estimated that 50% of the patients in general medicine present with symptoms of ENT origin. It is hoped that the time spent in this department will teach you a systematic approach to the office management of common ENT problems, as well as recognition of those problems requiring surgical referral.

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

You are expected to be present for both morning and evening rounds, as well as all scheduled and teaching conferences. The latter deal with basic medicine, anatomy and physiology related to the head and neck area; they provide good information for general patient care. Adequate time for reading is available and it is suggested that you utilize this for directed reading on a specific topic or for general information. The curriculum clerk will provide the text and syllabus.

Patient care and responsibility during the elective will depend upon the available material, as well as your interest and initiative. Specific diagnostic and preoperative workups will be assigned by the Chief Resident, hopefully to include a range of different problems. If you are interested in a specific area, tell the resident, and they will assist you in its evaluation. Your primary responsibility is clinical but as surgical cases are assigned, you will be expected to follow through with the patient, including observation in the operating room. Additional time spent in the operating room should be with the approval of the resident in charge of the clinic. For an inpatient experience designed for those interested in surgery, the Head and Neck/Plastics Service is available. General ENT services provide more outpatient emphasis.

ORL-720 Otolaryngology Clerkship Staff

Periods Offered: Each four weeks

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

Where to Report: Tumor Board Conference – 7:00 a.m. Radiology Conference Room 08191

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.

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

ORL-760 Off-Campus Elective in Otolaryngology
Periods Offered: By Arrangement
Student Limit: By Arrangement

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

ORL-799 Research in Otolaryngology
By Arrangement with the Department Chairman or Dr. William Lydiatt.

PATHOLOGY AND MICROBIOLOGY

Chair/Dr. Steven Hinrichs
(Clinical)/Dr. Subodh Lele
Kim Curry, Office Associate
3545 MSB
402-559-7212

Students must make arrangements with Kim Curry (Room 3545 MSB, 402-559-7212) before signing up for ANY Pathology electives.

**PAMM-720 Anatomic Pathology
(Includes Surgical Pathology, Cytopathology and Autopsy Pathology)**

Pathology Faculty

Periods Offered: Each month

Student Limit: 2 (By Arrangement)

Where to Report: Room 3503 Medical Services Building

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

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

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

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

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

**PAMM-799 Special Topics
Pathology Staff**

Periods Offered: By Arrangement with Dr. Lele and the Staff Pathologist in charge of the specialty area

Student Limit: 1 per specialty

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

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

Specialty

Cardiovascular Pathology
Clinical Chemistry
Cytology
Dermatopathology
ENT
Flow Cytometry
Gastrointestinal Pathology
Gynecologic Pathology
Hematopathology
Immunopathology
Lung
Microbiology
Molecular Pathology
Neuropathology
Public Health Microbiology
Renal Pathology
Soft Tissue
Transfusion Medicine
Transplantation Pathology
Urologic Pathology
Virology
Microbiology
Genetic abnormalities in bone
and soft tissue tumors
Biomolecular immunology,
lymphotropic viral oncogenesis
and psychoneuroimmunology

Staff

Dr. Radio
Dr. Sofronescu
Drs. Baker, Bridge, Lele, Radio and West
Drs. DiMaio and Kozel
Dr. Baker
Dr. Pirruccello
Drs. Lazenby, Talmon, Cohen
Dr. Lele
Drs. Greiner, Fu, Naushad, Yuan and Amador
Dr. Johnson
Dr. West
Drs. Fey (Director), Hinrichs, Iwen
Drs. Cushman-Vokoun, Greiner, Bridge
Dr. McComb
Drs. Iwen, Fey, Hinrichs
Drs. Foster, Talmon
Drs. Bridge, DiMaio and Kozel
Dr. Landmark
Drs. Wisecarver, Radio
Dr. Lele
Dr. Hinrichs
Drs. Hinrichs, Iwen

Dr. Bridge

Dr. Johnson

PEDIATRICS

Chair/Dr. John Sparks
Director, Undergraduate Medical Education/Dr. Adam Reinhardt
Joy L. Higgins, M.S., Clerkship Coordinator, Room 3135 UT, 402-559-9280
Victoria Nakibuuka-Muli, M.P.A., Educational Programs Coordinator 402-559-0685

PEDS-703 Required Primary Clerkship in Pediatrics

Periods Offered: Each eight weeks

Student Limit: 20

Semester Hours: 8

Where to Report: UT Room 7412

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

ALL ELECTIVES IN PEDIATRICS ARE PRE-ARRANGED AND WILL BE SCHEDULED BY E-MAILING JOY HIGGINS AT jhiggins@unmc.edu.

PEDS-722 Pediatric Cardiology and Cardiovascular Disease

Drs. Kugler, Danford, Erickson, Fletcher, Delaney, Kutty, Hsu, Spicer, Hickman, Kindel

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Dr. Spicer's Office (ppphillips@childrensomaha.org)

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

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

PEDS-724 Pediatric Emergency Medicine

Dr. Lisa White

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Pediatric Emergency Room at Children's Hospital (Please contact Dr. White at jwhite@childrensomaha.org 1-2 days prior to rotation to let the student know whom will be his/her provider contact).

The purpose of this elective is to provide students with practical experience in pediatric emergency medicine and urgent care centers. The experience gained through this elective will enable the students to understand what it means to practice in this type of environment, which will help them determine if it is an appropriate career choice. Under the guidance of board certified pediatricians and emergency medicine physicians, the students will see a broad spectrum of patient problems.

Activity	Hours/Week
Rounds (Shifts)	24
Didactic conferences	2
Independent learning	6
Research project	0
Independent patient care	0

PEDS-726 Pediatric Hematology Oncology and Bone Marrow Transplantation

Drs. Coccia, Abromowitch, Beck, Coulter, Gordon, Harper, Lettieri, and Lowas

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.

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

PEDS-727 Human Cytogenetics

Dr. Sanger

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Human Genetics Office

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

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

PEDS-728 Newborn Medicine
Drs. Anderson-Berry, Bolam, Fletcher, Kaftan, Schmidt, Lees, Birge, Grebe, and Zach
Periods Offered: Each four weeks
Student Limit: 2
Where to Report: Neonatal ICU (The Nebraska Medical Center)

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

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

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

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

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

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

PEDS-730 Pediatric Gastroenterology
Drs. Infantino, Quiros, Trauernicht, Palomo, and Zapata
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Children's GI Clinic

The student will:

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

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

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

PEDS-731 Genetics and Metabolic Disease
Drs. Buehler, Lutz, Olney, Rush, Sanger, and Starr
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Call 402-559-3602 for instructions

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

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

Activity	Hours/Week
Rounds/Clinics	20
Didactic conferences	4
Independent learning	6
Research project	10

PEDS-732 Pediatric Pulmonology (including cystic fibrosis)

Drs. Colombo, Barker, Sammut, Thomas, Burg, and Wilson

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: E-Mail Heather Thomas, M.D. at hthomas@childrensomaha.org

The pediatric Pulmonology clinic meets 2 half days per week. In these clinics, the student, under the supervision of the staff, evaluates new and follow-up patients with all forms of pediatric lung diseases. Approximately 40% of these patients have cystic fibrosis and are followed for routine care. The remainder includes a significant number of patients with asthma, recurrent pneumonia, chronic cough, tuberculosis, recurrent aspiration pneumonias and many other assorted disorders. The student will learn to perform and interpret basic pulmonary function tests. Inpatient rounds are made daily with the staff on patients hospitalized for cystic fibrosis or other pulmonary disease. Consultations are performed on other services' patients with pulmonary conditions.

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

PEDS-734 Clinical Pediatric Neurology

Drs. Larsen, McAllister, Oliver, Pavkovic, and Wright

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Reporting instructions are sent by e-mail prior to the start of the rotation.

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

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

PEDS-735 Infectious Disease

Dr. Simonsen, Snowden, Delair, Davies, Green, Hines, Neemann, and Obaro

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: E-mail Raven VonBehren at rvonbehren@childrensomaha.org.

This elective is NOT available for visiting students.

This elective provides the student with an opportunity for in-depth study of clinical and laboratory aspects of infections in children. Students will be expected to read a course syllabus and will be asked to present one or more interesting cases at scheduled conferences. Students will learn to evaluate neonates, infants and children with a wide range of infectious diseases. This is primarily an inpatient experience with about 10% of patients seen in the outpatient clinic. Students are required to

see all new consults initially with residents or fellows. The students perform a complete workup and assessment, then present their findings and recommendations to the attending physician on daily rounds. Three laboratory tutorial sessions are taught during the month, each lasting 1 ½ to 2 hours. In addition, rounds are made each day in the microbiology laboratory and students are responsible for monitoring all ongoing microbiology test/results. Students are required to do considerable outside reading on their patients' illnesses. A selected reading list is provided to all students at the beginning of the rotation and students are responsible for all the material therein. Regular "Journal Club" sessions are held throughout the month to discuss selected chapters from Infectious Diseases of Children.

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

PEDS-736 Developmental Pediatric Practicum

Drs. Ellis and Needelman

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: T.B.A.

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

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

PEDS-737 Pediatric Rheumatology

Drs. Reinhardt and Lim

Periods Offered: Each four weeks

Student Limit: 1

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

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

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

PEDS-742 Pediatric Nephrology

Drs. Mauch, Lovell, and Adabala

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Call Debbie at 402-559-8851

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

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

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

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: July, March, and October

Student Limit: 2

Where to Report: Dr. Finken's Office

Prerequisite: Matching in Pediatrics or Medicine/Pediatrics

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

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

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

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

PEDS-751 Pediatrics Subinternship

PICU: Drs. Kadlec and Mysore (CMH)

Wards: Drs. Dolter, Killefer, Lerner, Snow, Snyder, Stoolman, Susman

Wards: Drs. Walburn, Finken, Nasir, Pitner, and LaCroix (UNMC)

Periods Offered: Each four weeks

Student Limit: 1 per track

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

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

This elective is NOT available to visiting students.

This senior pediatric elective is an opportunity for medical students to receive hands-on experience in a wide variety of hospitalized pediatric patients. One track is that the student will function as a sub-intern for critically ill pediatric patients at Children's Hospital. The other option is for the student, functioning as a sub-intern, to admit, evaluate, manage and discharge patients on the wards at Children's Hospital in a rotating fashion with pediatric interns. This will be done under the guidance and supervision of the senior pediatric resident and the attending physician. Admissions will be assigned to maximize the student's exposure. The student will be expected to take in-house night call.

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

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 Joy Higgins at 402-559-9280.

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

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

PEDS-766 Off-Campus Pediatrics in Non-University Location
Periods Offered: Each four weeks
Student Limit: None
Same as PEDS-764 exception for location

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

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

PSYCHIATRY

Chair/Steven P. Wengel, M.D.

Clerkship Director: Sharon Hammer, M.D.

Curriculum Coordinator: Elisabeth (Liz) Sorenson/Stephanie Hansen, Poynter Hall, 4th floor

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 Liz Sorenson/Stephanie Hansen at 402-552-6170/402-552-6235 to schedule an appointment with Dr. Hammer.

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

PSYC-717 The History of Psychiatry

Periods Offered: Open every month EXCEPT October and April

Student Limit: 2 students per month

Staff: Dr. Carl Greiner

Reviewing the history of psychiatry provides valuable insights into the problems of stigma for psychiatric patients. The development of medical thought and perspectives were generally an attempt to provide a more humane understanding of psychiatric patients, although there were notable exceptions. The reform period of Dr. Pinel will be emphasized. By participating in this course, the student will gain a greater understanding and empathy for those with mental illness. On an academic level, the student will appreciate the challenges of making meaningful diagnoses in complex situations. As a clinician, the student will learn the importance of psychiatric diagnosis and its consequences for useful treatment. As an innovator, the student will have further tools to consider in the appropriate services for psychiatric patients in the evolving health structure. Overall, the student will have a broader understanding of meaningful diagnosis and respectful treatment.

PSYC-718 Stress Reduction Techniques for the Practicing Clinician

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

Student Limit: 5 students per month

Staff: Drs. Brent Khan and Steven Wengel

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

PSYC-723 Adult Inpatient Psychiatry Sub-Internship

Drs. Jeana Benton and Matthew Egbert

Periods Offered: Each four weeks

Student Limit: 2 students; 1 per service

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

PSYC-724 Correctional Psychiatry & Health Services

Dr. Martin Wetzel

Periods Offered: Each four weeks, EXCEPT November, February, and May

Student Limit: 1

This elective is a unique opportunity to care for patients in prison with disorders spanning the entire spectrum of mental illness. Emphasis is on direct patient care and further development of clinical skills in diagnosis and psychopharmacology. The schedule in this rotation is flexible and the curriculum is developed around student interests. Students will work with a team of experienced health professionals at the Lincoln Correctional Center (Lincoln, NE) who encourage student participation. This elective welcomes students who are curious about delivering health care in prison, and is a must for students interested in a career in any branch of correctional medicine. Students are responsible for their own daily transportation to and from the Lincoln Correctional Center. Student safety and security are the top priority at correctional institutions. Students are never alone with inmates and will always be accompanied by trained staff. All students will be oriented by designated staff regarding security procedures. Students will be actively involved in all aspects of patient care including interviews, documentation, and treatment planning.

PSYC-725 Child and Adolescent Psychiatry

Dr. Jennifer McWilliams

Periods Offered: Each four weeks

Student Limit: 1

This elective provides the student greater exposure to the subspecialty of child and adolescent psychiatry. Students will participate with faculty and therapists in outpatient care of this young patient population. Students will participate in the assessment of children and adolescents with a variety of psychiatric diagnoses by interviewing both patients and their caregivers, as well as forming differential diagnoses and bio-psychosocial treatment plans. This elective is intended for those considering a career field involving the treatment of children and adolescents and for those who would like to explore child and adolescent psychiatry as a career.

PSYC-727 Psychiatry Through the Lifespan

Drs. Sharon Hammer, Jennifer McWilliams and Steven Wengel

Periods Offered: Each four weeks, EXCEPT November, December, and January

Student limit: 1

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

PSYC-740 Consultation Liaison Psychiatry Sub-Internship
Dr. Sharma
Periods Offered: Each four weeks
Student Limit: 2

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

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

PSYC-741 Geriatric Psychiatry
Drs. Magnuson, Roccaforte and Wengel
Periods Offered: Each four weeks
Student Limit: 1

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

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

PSYC-760 Off-Campus Psychiatry Elective
Student Limit: By Arrangement with Dr. Sharon Hammer through Liz Sorenson or Stephanie Hansen

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

RADIOLOGY

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

For any questions regarding Radiology electives, please contact Tina Hunter. However, this elective is NOT pre-arranged. It is done by lottery by Sue Pope.

RADI-720 Diagnostic Radiology
Periods offered: Each four weeks EXCEPT December
This elective is NOT offered during the month of December.
Student Limit: 16
Where to Report: Room 1500 (Hunt Conference Room) at 8:30 a.m.
Students will be notified by letter prior to starting the rotation.

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

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

RADI-724 Nuclear Medicine
Faculty Contact – Dr. Jordan Hankins
Periods Offered: Must meet with faculty and given approval prior to elective
Student Limit: 1
Where to Report: University Hospital, 1st Floor – Nuclear Medicine Reading Room

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

Pertinent radiation biologic and radiation protection considerations are related to the conduct of the routine practice of nuclear medicine. Opportunity is available for the pursuit of individual interests within the overall framework of the elective. A specific investigational activity exploring an area of interest in greater depth is also an integral part of the elective, providing a more detailed experience relating to the field of nuclear medicine.

RADI-727 Interventional Radiology

Faculty Contact – Dr. Joseph McBride

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Contact Tina Hunter in the Department of Radiology.

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

RADI-760 Off-Campus Radiology Elective

Periods Offered: Each four weeks

Student Limit: By Arrangement

Prerequisite: By permission of Clerkship Coordinator

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

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

RADIATION THERAPY

Chair/Dr. Charles E. Enke

Contact Person: Lynette M. McKenny at 402-552-6547

RADI-722 Radiation Therapy

Periods Offered: Each four weeks

(may be extended an additional four weeks by permission)

Student Limit: 1 per section

**Where to Report: Dr. Charles Enke, Radiation Oncology, The Nebraska Medical Center-
Ground Floor, 8:30 a.m.**

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

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

SURGERY

Chair/David W. Mercer, M.D.

Charity Evans, M.D./Director of Student Education

Kimberly Schenarts, PhD/Assistant Director of Student Education

Beverly Vaughn, Student Coordinator, 402-559-4718

Room 4536 MSB

Surgical specialties are clinical rotations which allow students the opportunity to combine all of the knowledge that they have accumulated during the first three years of medical school. A thorough knowledge of anatomy, pathophysiology and clinical decision-making is essential to prepare for and execute operative procedures. In the operating room gross pathology can be observed and histologic pathology later reviewed. This pathology can be correlated with preoperative imaging and physical exam findings. The physiology and pathophysiology of disease and their effect on all body systems is observed pre-operatively, intra-operatively and during the post-operative recovery periods. The spectrum of other areas of medicine that can be seen in surgical patients include infectious disease, endocrinology, cardiology, pulmonology, immunology and pharmacology. Surgical specialties offer exposure to both adult and pediatric patients. All of these electives are geared towards graduated responsibility in patient care as students progress to functioning at the level of an intern.

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

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

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

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

ELECTIVES: The electives are designed to build on the foundation achieved in the primary clerkship. The student is an active participant in the professional team caring for patients. Professional communication, relation of the surgical problem to the basis of disease, the details and technique of diagnosis and treatment, are the focus of increasing involvement with patients through the pre-operative and post-operative periods in conjunction with the faculty. The primary clerkship is a prerequisite for all electives in the Department of Surgery.

Please see the following person to arrange each elective:

SURG-710	Beverly Vaughn (Surgery)
SURG-720	Beverly Vaughn (Surgery)
SURG-721	Beverly Vaughn (Surgery)
SURG-722	Beverly Vaughn (Surgery)
SURG-725	Beverly Vaughn (Surgery)
SURG-726	Beverly Vaughn (Surgery)
SURG-727	Beverly Vaughn (Surgery)
SURG-728	Beverly Vaughn (Surgery)
SURG-729	Beverly Vaughn (Surgery)
SURG-730	Beverly Vaughn (Surgery)
SURG-736	Kellie Devney (Neurosurgery)
SURG-738	Kellie Devney (Neurosurgery)
SURG-740	Kellie Devney (Neurosurgery)
SURG-760	Beverly Vaughn (Surgery)
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 students will have an eight-week required clerkship in Surgery. The clinical structure of the rotation is 1 four-week rotation on a core general surgery service. Then 2 two-week rotations on a subspecialty. These include, but are not limited to, general surgery and its' subspecialties, orthopaedic surgery, neurosurgery, urology, ophthalmology and otolaryngology/head and neck surgery. The rotations will take place at any of the following locations – UNMC/NM, VA Medical Center, Methodist Hospital and Children's Hospital and Medical Center. Some rotations may offer opportunities to see patients at other facilities in Omaha, depending on the practice of the providers. Students will participate in two (2) dedicated educational days where there will be didactic lectures and time for computerized modules that cover core areas of surgery.

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

SURG-710 Plastic Surgery
Drs. Ronald Hollins, Reilly, Miller, Johnson, and Durden
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Check with Beverly Vaughn Room 4536 MSB

This elective experience is designed to expose senior students to the principles of plastic surgery and possibly enhance any interest they may have in the field.

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

Students are active participants in the team caring for patients. Students will be exposed to 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-721 Surgical Skill Immersion Course
Dr. Wendy Grant
Periods Offered: April ONLY
Student Limit: 10
Where to Report: Check with Beverly Vaughn Room 4536 MSB

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

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

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

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

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

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

SURG-726 Oral Surgery
Dr. Leon Davis
Periods Offered: Each four weeks
Student Limit: 1
Where to Report: Students should make arrangements with Dr. Leon Davis and Pat Tolliver.

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

SURG-727 Thoracic Surgery

Periods Offered: Each four weeks

Student Limit: 1 – Drs. Lackner and Trujillo

Where to Report: Students should make arrangements with Beverly Vaughn in the Department of Surgery.

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

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

SURG-728 General Surgery in Affiliated Hospitals

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Students should make arrangements with Beverly Vaughn in the Department of Surgery.

Services:

Methodist: Drs. Rose, Reilly, Winterstein, Buda, Dittrick, Eakins, and Kolkman

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: 1 per service

Where to Report: Students should make arrangements with Beverly Vaughn in the Department of Surgery.

Students selecting an elective on General Surgery at UNMC 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.

Services:

Colorectal	Drs. Thompson, Langenfeld, and Kingston
MID/Bariatric	Drs. Oleynikov, McBride, Kothari, and Goede
Vascular:	Drs. Longo, Johannung, MacTaggart, Baxter, and Pipinos
Surgical Oncology:	Drs. Are, Foster, Ly, and Sasson
OVAMC:	Dr. Carlson
Surgical ICU:	Drs. Schenarts, Evans, Stothert, Cemaj, Nelson, Schlitzkus, Mansuri, Buesing, and Goede
Trauma/Emergency	
General Surgery:	Drs. Schenarts, Evans, Stothert, Cemaj, Nelson, Schlitzkus, Mansuri, Buesing, and Goede

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

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

SURG-730 Transplantation Surgery (Liver or Kidney)

Periods Offered: Each four weeks

Student Limit: 1 each

Where to Report: Check with Beverly Vaughn Room 4536 MSB

This elective is available to all students interested in a career in surgery with a special interest in solid organ transplantation. Students will function as a sub intern for the transplant patients only and will be intimately involved in all phases of the transplantation procedure; both donor and recipient operation, pre- and post-operative management and regulation of immunosuppressive drugs. Students will be exposed to patients undergoing liver, small bowel, kidney and pancreatic transplant. In addition, all general surgical procedures on transplant patients and hepato-biliary operations will be a part of the rotation. The student must be available at all times throughout the rotation due to the unpredictable nature of transplantation.

SURG-736 Pediatric Neurosurgery

Periods Offered: Each four weeks – Children’s Hospital under the supervision of Dr. Mark Puccioni

Student Limit: 1

Where to Report: Children’s Hospital – Room & Time TBA

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

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

SURG-738 Neurosurgery

Periods Offered: Each four weeks

Student Limit: 1

Where to Report: Kellie Devney, Room 4140 UNH

This elective offers the student experience with respect to diagnosis, treatment and management of patients with neurological surgical disease under close supervision of the faculty.

SURG-740 Preceptorial Neurosurgery
Periods Offered: Each four weeks
Student Limit: 1 per service
Where to Report: Kellie Devney, Room 4140 UNH

Members of the clinical faculty of the Division of Neurosurgery offer preceptorial elective clerkships for students. Four services are available, one each with:

Drs. George Greene, John Hain and Ric Jensen, Omaha

Drs. Steve Doran, Keith Lodhia, Douglas Long, Mark Puccioni, Wendy Spangler, John Treves, Bradley Bowdino and Guy Music, Omaha

Drs. Eric Pierson, Benjamin Gelber, Andrew Livingston, and Daniel Tomes, Lincoln

Drs. A. Badejo and Ramon Salumbides, Kearney

Prior arrangements must be made with the physician involved and approved after an interview with the Division 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-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)

MONTH	FIRST CHOICE	SECOND CHOICE
JUL 2015	PEDS-728 Newborn Medicine	NONE NEEDED PRE-ARRANGED
AUG 2015	IMED-720 Adult Cardiology	IMED-726 Infectious Disease
SEP 2015	SURG-730 Transplantation	NONE NEEDED PRE-ARRANGED
OCT 2015	IMED-724 G.I.	IMED-722 General Medicine
NOV 2015	ANES-720 Anesthesia	NONE NEEDED PRE-ARRANGED
DEC 2015	IMED-751 Rheumatology	NONE NEEDED PRE-ARRANGED
JAN 2016	VACATION	
FEB 2016	M-ID-728 Development of PBL Cases	NONE NEEDED PRE-ARRANGED
MAR 2016	OPHT-720 Ophthalmology	IMED-727 Renal
APR 2016	M-ID-710 ICE Senior Seminars	NONE NEEDED PRE-ARRANGED

RETURN WORKSHEET TO SUE POPE BY FRIDAY, MARCH 27,2015