

**THE UNIVERSITY OF IOWA
CARVER COLLEGE OF MEDICINE
ADVANCED ELECTIVE COURSES 2012-2013**

Course descriptions are available at:

http://www.medicine.uiowa.edu/uploadedFiles/Education/MD/Content/Teaching_and_Learning/Curriculum/M4ElectiveBook.pdf

*See Course Description

| ANATOMY & CELL BIOLOGY | Class | Weeks | Blocks |
|---|--------|-------|--------|
| 060:232 Advanced Human Anatomy | M4 | 4 | * |
| 060:402 Teaching Elective in Regional Anatomy | M4* | 2 | * |
| | | | |
| ANESTHESIA | Class | Weeks | Blocks |
| 116:006 Clinical Anesthesia Rotation | M3/M4 | 2 | All |
| 116:010 Clinical Anesthesia Senior Rotation | M4 | 4 | All |
| 116:011 Intensive Care (SICU) | M4 | 4 | All |
| 116:333 Intensive Care Off-Campus | M4 | 4 | All |
| 116:998 Anesthesia On-Campus | M4 | 4 | All |
| 116:999 Anesthesia Off-Campus | M4 | 4 | All |
| | | | |
| CARDIOTHORACIC SURGERY | Class | Weeks | Blocks |
| 193:232 Sub-Internship in Cardiothoracic Surgery | M4 | 4 | All |
| 193:233 Research in Cardiothoracic Surgery | M4 | 4 | All |
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| DERMATOLOGY | Class | Weeks | Blocks |
| 062:002 Dermatology Elective | M4 | 4 | All |
| 062:004 Research in Dermatology | M4 | 4 | All |
| 062:999 Dermatology Off-Campus | M4 | 4 | All |
| | | | |
| EMERGENCY MEDICINE | Class | Weeks | Blocks |
| 184:220 Emergency Medicine at St. Luke's, Cedar Rapids | M4 | 4 | * |
| 184:221 Emergency Medicine UIHC | M3*/M4 | 4 | * |
| 184:222 Emergency Medicine Off-Campus | M4 | 4 | ALL |
| 184:223 Rural Emergency Medicine, Burlington | M3*/M4 | 4 | * |
| 184:224 Intro to Advanced Life Support Skills | M4 | 4 | * |
| 184:225 Wilderness Medicine | M4 | 4 | * |
| 184:226 Transition to Residency | M4 | 2 | * |
| 184:402 Emergency Medicine -Ambulatory Care, Broadlawns, Des Moines | M3*/M4 | 4 | * |
| 184:425 Emergency Department Rotation, Covenant, Waterloo | M4 | 4 | * |
| 184:430 Emergency Medicine, Sioux City | M3*/M4 | 4 | * |
| 184:998 Emergency Medicine On-Campus | M4 | 4 | ALL |

| FAMILY MEDICINE | Class | Weeks | Blocks |
|--|--------|-------|--------|
| 115:401 Family Medicine Clerkship, Broadlawns, Des Moines | M4 | 4 | All |
| 115:403 River Crossing Family Medicine Clerkship | M3*/M4 | 2/4 | All |
| 115:404 Preceptorship in Family Medicine | M4 | 2/4 | All |
| 115:405 Sub-Internship in Family Medicine | M4 | 4 | All |
| 115:406 Sub-Internship in Family Medicine, Iowa Lutheran, Des Moines | M4 | 4 | All |
| 115:407 Family Medicine Clerkship, Iowa Lutheran, Des Moines | M4 | 4 | All |
| 115:408 University of Iowa Family Medicine Clerkship | M3*/M4 | 2/4 | All |
| 115:409 Family Medicine Clerkship, Mason City | M4 | 2/4 | All |
| 115:410 Independent Study | M4 | 4 | All |
| 115:411 Rural Preceptorship in Family Medicine | M4 | 2/4 | All |
| 115:415 Sub-Internship in Family Medicine, Cedar Rapids | M4 | 4 | All |
| 115:416 Family Medicine Clerkship, Cedar Rapids | M4 | 4 | All |
| 115:417 Continuity of Care in Outpatient Medicine | M4 | * | * |
| 115:419 Family Medicine Clerkship, Davenport | M4 | 4 | All |
| 115:420 Family Medicine Clerkship, Sioux City | M3*/M4 | 2/4 | All |
| 115:423 Sub-Internship in Family Medicine, Waterloo | M4 | 4 | All |
| 115:424 Family Medicine Clerkship, Waterloo | M4 | 4 | All |
| 115:426 Family Medicine Geriatrics | M3*/M4 | 2/4 | All |
| 115:427 Family Medicine Geriatrics/Palliative Care, Davenport | M4 | 4 | All |
| 115:429 Sub-Internship in Family Medicine, Sioux City | M4 | 4 | All |
| 115:430 Sub-Internship in Family Medicine, Davenport | M4 | 4 | All |
| 115:431 Primary Care Sports Medicine | M4 | 4 | * |
| 115:999 Family Medicine Off-Campus | M4 | 4 | All |
| | | | |
| INTERDISCIPLINARY | Class | Weeks | Blocks |
| 050:280 The Observer Speaks: Medicine, Literature, and Writing | M4 | 4 | * |
| 050:282 Global Health Clerkship | M4 | 4/6/8 | All |
| 050:300 Teaching Skills for Medical Students | M4 | 4 | * |
| 050:301 Advanced Teaching Skills for Medical Students | M4 | 2 | * |

| INTERNAL MEDICINE | Class | Weeks | Blocks |
|---|--------------|--------------|---------------|
| 078:202 Sub-Internship in Internal Medicine | M4 | 4 | All |
| 078:204 Community-Based General Internal Medicine | M4 | 4 | All |
| 078:205 Continuity of Care in Outpatient Internal Medicine | M4 | * | * |
| 078:217 Topics in Infectious Disease | M4 | * | * |
| 078:218 Medical ICU, Iowa Methodist, Des Moines | M4 | 4 | All |
| 078:219 Sub-Internship in Internal Medicine, VAMC, Des Moines | M4 | 4 | All |
| 078:220 Sub-Internship in Internal Medicine, IMMC, Des Moines | M4 | 4 | All |
| 078:221 Public Health Medicine, Des Moines | M4 | 4 | All |
| 078:225 Internal Medicine Consult Service, Iowa Methodist, Des Moines | M4 | 2/4 | All |
| 078:250 Clinical Allergy-Immunology | M4 | 2/4 | All |
| 078:290 Research in Allergy-Immunology | M4 | 4 | All |
| 078:300 Clinical Cardiology | M4 | 2/4 | All |
| 078:325 Clinical Cardiology, Iowa Methodist, Des Moines | M4 | 2/4 | All |
| 078:333 Internal Medicine Critical Care Off-Campus | M4 | 4 | All |
| 078:400 Clinical Endocrinology | M4 | 2/4 | All |
| 078:440 Endocrine Research | M4 | * | All |
| 078:450 Clinical Gastroenterology-Hepatology | M4 | 2/4 | All |
| 078:490 Research in Gastroenterology-Hepatology | M4 | * | All |
| 078:501 Hematology Oncology | M4 | 2/4 | All |
| 078:503 Palliative Care | M4 | 2/4 | All |
| 078:504 Multidisciplinary Cancer Care | M4 | 2 | * |
| 078:550 Clinical Infectious Disease | M4 | 2/4 | All |
| 078:590 Research in Infectious Disease | M4 | * | All |
| 078:600 Pulmonary Disease - Pulmonary Consultation Service | M4 | 2/4 | All |
| 078:601 Research in Pulmonary Disease | M4 | * | All |
| 078:602 Pulmonary Disease - Medical Intensive Care Unit | M4 | 4 | All |
| 078:650 Adult Nephrology | M4 | 2/4 | All |
| 078:652 Clinical Nephrology, Iowa Methodist, Des Moines | M4 | 2/4 | All |
| 078:690 Renal Research | M4 | * | All |
| 078:700 Clinical Rheumatology | M4 | 2/4 | All |
| 078:998 Internal Medicine On-Campus | M4 | 4 | All |
| 078:999 Internal Medicine Off-Campus | M4 | 4 | All |

| NEUROLOGICAL SURGERY | Class | Weeks | Blocks |
|--|--------|-------|--------|
| 183:227 Sub-Internship in Neurosurgery | M4 | 4 | All |
| 183:228 Research in Neurological Surgery | M4 | 4 | All |
| 183:999 Neurosurgery Off-Campus | M4 | 4 | All |
| | | | |
| NEUROLOGY | Class | Weeks | Blocks |
| 064:302 Advanced Inpatient Neurology | M4 | 4 | All |
| 064:303 Advanced Outpatient Neurology | M4 | 4 | All |
| 064:310 Cerebrovascular Disease | M4 | 4 | All |
| 064:998 Neurology On-Campus | M4 | 4 | All |
| 064:999 Neurology Off-Campus | M4 | 4 | All |
| | | | |
| OBSTETRICS & GYNECOLOGY | Class | Weeks | Blocks |
| 066:006 High Risk Antepartum Obstetrics Sub-Internship | M4 | 4 | All |
| 066:010 Gynecologic Oncology Sub-Internship | M4 | 4 | All |
| 066:013 Reproductive Endocrinology | M4 | 4 | * |
| 066:017 Continuity of Care In Obstetrics & Gynecology | M4 | * | * |
| 066:018 Community Based OB/Gyn, Washington | M4 | 4 | All |
| 066:019 Family Planning | M4 | 4 | All |
| 066:020 Non-interventional Birth with the Nurse Midwives | M3*/M4 | 2 | All |
| 066:998 Ob/Gyn On-Campus | M4 | 4 | All |
| 066:999 Ob/Gyn Off-Campus | M4 | 4 | All |
| *079:117 Female Pelvic Floor Dysfunction | | | |
| | | | |
| OPHTHALMOLOGY | Class | Weeks | Blocks |
| 067:100 Ocular Pathology | M4 | 4 | * |
| 067:101 External Eye Disease | M4 | 4 | All |
| 067:102 Neuro-Ophthalmology | M4 | 4 | All |
| 067:109 Molecular Ophthalmology | M4 | 4 | All |
| 067:998 Ophthalmology On-Campus | M4 | 4 | All |
| 067:999 Ophthalmology Off-Campus | M4 | 4 | All |
| | | | |
| ORTHOPAEDIC SURGERY | Class | Weeks | Blocks |
| 076:201 Advanced Clinical Orthopaedics | M4 | 4 | All |
| 076:202 Musculoskeletal Trauma | M4 | 4 | All |
| 076:203 Sub-Internship in Orthopaedics | M4 | 4 | All |
| 076:204 Introduction to Physical Medicine And Rehabilitation | M3/M4 | 2 | All |
| 076:205 Physical Medicine And Rehabilitation | M4 | 4 | All |
| 076:998 Orthopaedics On-Campus | M4 | 4 | All |
| 076:999 Orthopaedics Off-Campus | M4 | 4 | All |

| OTOLARYNGOLOGY | Class | Weeks | Blocks |
|--|--------|-------|--------|
| 068:100 Sub-Internship in Otolaryngology | M4 | 4 | All |
| 068:998 Otolaryngology On-Campus | M4 | 4 | All |
| 068:999 Otolaryngology Off-Campus | M4 | 4 | All |
| | | | |
| PATHOLOGY | Class | Weeks | Blocks |
| 069:241 Autopsy Pathology Clerkship | M4 | 4 | All |
| 069:245 Hematopathology Clerkship | M4 | 4 | All |
| 069:246 Surgical Pathology | M4 | 4 | All |
| 069:247 Blood Bank Clerkship | M4 | 4 | All |
| 069:998 Pathology On-Campus | M4 | 4 | All |
| 069:999 Pathology Off-Campus | M4 | 4 | All |
| | | | |
| PEDIATRICS | Class | Weeks | Blocks |
| 070:013 General Pediatrics Sub-Internship, Blank Children's Hospital, Des Moines | M4 | 4 | All |
| 070:014 Pediatric Emergency Room, Blank Children's Hospital, Des Moines | M4 | 4 | All |
| 070:015 Neonatal icu, Blank Children's Hospital, Des Moines | M4 | 4 | All |
| 070:016 Pediatric Hematology/Oncology | M4 | 2/4 | All |
| 070:017 Pediatric Neurology | M4 | 2/4 | All |
| 070:019 Pediatric Cardiology | M3*/M4 | 2/4 | All |
| 070:023 Developmental and Behavioral Pediatrics | M3*/M4 | 2/4 | * |
| 070:025 Child Abuse and Neglect | M3*/M4 | 2/4 | * |
| 070:027 Neonatal Intensive Care Unit | M4 | 4 | All |
| 070:028 Pediatric Inpatient Care Sub-Internship | M4 | 4 | All |
| 070:029 Pediatric Intensive Care Unit | M4 | 4 | All |
| 070:030 Medical Genetics for the Senior Student | M4 | 4 | * |
| 070:031 Pediatric Nephrology | M3*/M4 | 2/4 | All |
| 070:033 Pediatric Gastroenterology | M3*/M4 | 2/4 | All |
| 070:043 Pediatric Allergy and Pulmonology | M3*/M4 | 2/4 | All |
| 070:055 General Pediatric Outpatient Clinic | M3*/M4 | 2/4 | All |
| 070:060 Continuity of Care In Outpatient General Pediatrics | M4 | * | * |
| 070:333 Pediatric Critical Care Off-Campus | M4 | 4 | All |
| 070:998 Pediatrics On-Campus | M4 | 4 | All |
| 070:999 Pediatrics Off-Campus | M4 | 4 | All |

| PSYCHIATRY | Class | Weeks | Blocks |
|---|--------|-------|--------|
| 073:033 Adult Inpatient Psychiatry | M4 | 4 | All |
| 073:035 Child Psychiatry | M4 | 4 | All |
| 073:045 Adult Outpatient Psychiatry and Psychotherapy | M4* | 2/4 | All |
| 073:047 Women's Wellness and Counseling Service | M4 | 4 | All |
| 073:049 Eating Disorders | M4 | 4 | All |
| 073:050 Intellectual Disability | M3*/M4 | 2 | All |
| 073:051 Substance Abuse | M3*/M4 | 2 | All |
| 073:052 Emergency Psychiatry | M3*/M4 | 2/4 | All |
| 073:053 Advanced Clinical Psychiatry, Des Moines | M4 | 4 | All |
| 073:060 Psychiatry Continuity of Care Clinic | M4 | * | * |
| 073:105 Research: Psychiatry | M4 | 4 | All |
| 073:835 Sub-Internship in Medical Psychiatry | M4 | 4 | All |
| 073:836 Sub-Internship in Mood/Psychotic Disorders | M4 | 4 | All |
| 073:998 Psychiatry On-Campus | M4 | 4 | All |
| 073:999 Psychiatry Off-Campus | M4 | 4 | All |
| | | | |
| RADIATION ONCOLOGY | Class | Weeks | Blocks |
| 186:202 Radiation Oncology | M3*/M4 | 2/4 | All |
| 186:998 Radiation Oncology On-Campus | M4 | 4 | All |
| 186:999 Radiation Oncology Off-Campus | M4 | 4 | All |
| | | | |
| RADIOLOGY | Class | Weeks | Blocks |
| 074:201 Advanced Clinical Radiology | M4 | 2/4 | All |
| 074:203 Vascular and Interventional Radiology | M4 | 2/4 | All |
| 074:901 Community Radiology | M4 | 4 | All |
| 074:998 Radiology On-Campus | M4 | 4 | All |
| 074:999 Radiology Off-Campus | M4 | 4 | All |
| | | | |
| SURGERY | Class | Weeks | Blocks |
| 075:216 Sub-Internship in Surgery | M4 | 4 | All |
| 075:217 Advanced General Surgery | M4 | 4 | All |
| 075:229 Research in Surgery | M4 | 4 | All |
| 075:235 General Surgery, Iowa Methodist, Des Moines | M4 | 4 | All |
| 075:236 Surgical Trauma Critical Care Service, Iowa Methodist, Des Moines | M4 | 4 | All |
| 075:237 General Surgery, Davenport Surgical Group/Genesis Med Ctr | M4 | 4 | All |
| 075:998 Surgery On-Campus | M4 | 4 | All |
| 075:999 Surgery Off-Campus | M4 | 4 | All |

| UROLOGY | Class | Weeks | Blocks |
|---|--------|-------|--------|
| 079:108 Advanced General Urology | M4 | 4 | All |
| 079:109 Pediatric Urology | M3*/M4 | 2/4 | * |
| 079:110 Individual Study Clinical Research | M4 | 4 | All |
| 079:115 Urology Oncology: Multispecialty Approach | M3*/M4 | 2/4 | * |
| *079:117 Female Pelvic Floor Dysfunction | M3*/M4 | 2/4 | All |
| 079:120 Community General Urology, Iowa Methodist, Des Moines | M4 | 4 | All |
| 079:999 Urology Off-Campus | M4 | 4 | All |
| | | | |
| COLLEGE OF PUBLIC HEALTH | Class | Weeks | Blocks |
| 175:996 Occupational Medicine | M4 | 4 | All |

INTERDISCIPLINARY

050:280 THE OBSERVER SPEAKS: MEDICINE, LITERATURE, AND WRITING

OBJECTIVES: With residency applications completed or a match in your hand, this course offers you a chance to devote four weeks to reading, discussing, and writing in response to literature, essays, and poetry. Reading selections change each semester and have included work by Abraham Verghese, Jeffrey Eugenides, Jose Saramago, Joan Didion, Alice Sebold, Marilynne Robinson, Shakespeare, and Anton Chekhov. You will read approximately 500 pages and write one assignment each week. You will be responsible for active participation in our weekly discussions of assigned readings and the writing of your classroom peers.

Come discuss literature from clinical and creative perspectives and experience the workshop method of presenting your own writing for peer review.

FACULTY: *Jason T. Lewis, 5-8051*
MAX ENROLLMENT: *12*
OFFERED: *4/1/13*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Jason T. Lewis, 5-8051*
REPORT TO: *1193 MERF, 8:30 am on first day*

050:282 GLOBAL HEALTH CLERKSHIP

OBJECTIVES: Individually arranged cross-cultural global health program at an international or selected domestic site. Individual educational objectives and evaluation methods must be agreed upon in advance with Global Programs Director in the College of Medicine. Student must work under the immediate supervision of a health care provider who has extensive knowledge and expertise as well as a formal tie to the site. Evaluation is based on preparation work, on site feedback, and required written and oral reports.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 consecutive weeks minimum, credit is given in multiples of 2 week periods*
ADMINISTRATIVE CONTACT: *Robin Paetzold, Director, Global Programs
1187A MERF, 353-5762*
SPECIAL CONDITIONS: *Global Elective form must be submitted for approval 6 weeks prior to beginning of rotation. Students are strongly recommended to meet with Global Programs Director to discuss their proposed elective six months before their elective is to begin.*

050:300 TEACHING SKILLS FOR MEDICAL STUDENTS

- OBJECTIVES:**
1. Students will be familiar with teaching fundamentals (teaching styles, techniques, content, and environment).
 2. Students will be able to describe common interactions between learner and teacher (learning styles, managing learners, verbal & nonverbal communication).
 3. Students will gain practical experience of fundamentals via presentations and evaluations (formal presentations, extemporaneous speaking, feedback & evaluating speakers).
 4. Students will gain practical experience in one-on-one and small group teaching, including learning how to give feedback to learners, how to demonstrate and observe clinical skills, and how to facilitate small group discussions.

Students will be expected to:

- A. Attend classes as outlined in the monthly schedule.
- B. Make a brief (5 minute) presentation at the beginning and a 15 minute presentation at the end of the course that will be video recorded and used for self and instructor evaluation.
- C. Prepare for sessions via readings and/or reviewing websites and on-line materials.
- D. Attend presentations in the Carver College of Medicine, UIHC, and the University to evaluate the presentation and speaker (lectures, classes, Grand Rounds, conferences, etc.).
- E. Develop and write a CBL case using the template provided.
- F. Conduct a literature search on teaching residents-to-teach with a focus in the student's future medical specialty.

FACULTY: *Jeff Pettit, PhD; Kristi Ferguson, PhD;
Office of Consultation and Research in Medical
Education (OCRME)*

MAX ENROLLMENT: 9

OFFERED: *Fall - 9/17/12, 10/15/12, and 11/12/12
Spring – 1/7/13, 2/4/13, and 3/4/13*

LENGTH OF ELECTIVE: 4 weeks

ADMINISTRATIVE CONTACT: *Jeff Pettit, 1201 MEB, 335-9910
Kristi Ferguson, 1201 MEB, 335-8900*

REPORT TO: *OCRME Conference Room 1202 MEB
at 1:30 pm on first day*

050:301 ADVANCED TEACHING SKILLS FOR MEDICAL STUDENTS

OBJECTIVES: Provide medical students an opportunity to expand their knowledge and experience in medical education. Many students who have completed the teaching elective (050:300) have expressed a desire to learn more about medical education. This elective will give them an opportunity to investigate medical education in their specialty of interest through literature research and interaction with faculty. The primary focus of the elective will be to design and successfully complete a project as agreed upon by faculty. Projects examples might include use of simulation as a teaching approach, peer observation and feedback, designing a curriculum, current issues in medical education, or effective teaching in the operating room.

1. Students will concentrate on medical education in their specialty of interest.
2. Students will design and complete a project related to medical education.
3. Students will conduct an extensive literature search to support their projects.
4. Students will collaborate with other medical educators to expand their knowledge of medical education.
5. When applicable, students will present a topic related to medical education to students enrolled in 050:300 Teaching Skills for Medical Students.

FACULTY: *Jeff Pettit, PhD; Kristi Ferguson, PhD;*
Office of Consultation and Research in Medical
Education (OCRME)

MAX ENROLLMENT: 2

OFFERED: *Any two week block 10/15/12 - 4/29/13*

LENGTH OF ELECTIVE: *2 weeks*

ADMINISTRATIVE CONTACT: *Jeff Pettit, 1201 MEB, 335-9910*
Kristi Ferguson, 1201 MEB, 335-8900

REPORT TO: *OCRME Conference Room 1202 MEB*

PREREQUISITES: *050:300 Teaching Skills for Medical Students*

DEPARTMENT OF ANATOMY & CELL BIOLOGY

CONTACT PERSON: Julie Stark
1-100 BSB
335-7744

060:232 ADVANCED HUMAN ANATOMY

OBJECTIVES: The student will review gross anatomy and dissect in areas of special interest. Students will arrange with the Course Director, at least 4 weeks in advance, an appropriate plan of study. This plan of study will be based upon the goals of the student. The plan will specify the objectives needed to meet the goals, the extent and depth of the dissection to be performed, the level of anatomical knowledge to be achieved, and the time course over which this will be undertaken. Students will be evaluated in the Gross Anatomy Laboratory by an oral examination of approximately one-hour duration at the halfway point of the course and at its conclusion. A written exam will be completed during the final week of the course. Students will be evaluated on the completeness and accuracy of their dissections and on anatomical knowledge related to the regions dissected. Details of the evaluation process are included in the course syllabus.

There is a \$500 supplemental course fee for all students utilizing the Gross Anatomy Laboratory.

FACULTY: *Dr. Marc Pizzimenti*
MAX ENROLLMENT: *12*
OFFERED: *3/4/13 and 4/1/13 ONLY*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Julie Stark*
REPORT TO: *Appropriate instructor*
SPECIAL CONDITIONS: *STUDENT MUST COMPLETE FORM 060:232
BEFORE ADDING IT TO THEIR SCHEDULE*

060:402 TEACHING ELECTIVE IN REGIONAL ANATOMY

OBJECTIVES: Provide medical students with an opportunity expand their knowledge and experience in medical education. This elective will promote investigating educational pedagogy in a laboratory setting coupled with self-directed learning of anatomical content relevant to professional development. The primary focus of this elective will be to prepare, design, and implement four teaching interactions with M1/D1/PA1 students. In addition to the teaching interactions, students will design a classroom exercise (e.g., interactive lecture, learning activity, or computer-based study module) that helps bridge the basic science content with a clinical procedure.

- Complete regional dissections in the identified area of interest
- Participate in guiding M1 students through the dissection process
- Identify and implement various teaching strategies suitable for laboratory and classroom setting
- Design and present a learning module for the regional anatomy studied

FACULTY: *Dr. Marc Pizzimenti and Dr. Darren Hoffmann*

MAX ENROLLMENT: *4*

OFFERED: *Check with Dr. Pizzimenti for schedule*

LENGTH OF ELECTIVE: *2 weeks*

ADMINISTRATIVE CONTACT: *Julie Stark*

REPORT TO: *Gross Anatomy lab, 7:30 am., or as arranged*

Completion of the M3 year and Enrolled in

PREREQUISITES: *Teaching Distinction Track or approval from
Course Director*

DEPARTMENT OF DERMATOLOGY

COURSE DIRECTOR: Dr. Vincent Liu

CONTACT PERSON: Cheryl Moores
40027 PFP
356-1694

062:002 DERMATOLOGY ELECTIVE

OBJECTIVES: **The student will** 1) acquire a deeper familiarity with basic skin anatomy, physiology and pathology; 2) understand the importance of morphology and description of diagnosing cutaneous disease; 3) learn how to perform and document a complete skin examination; 4) learn to generate appropriate differential diagnoses for skin conditions; 5) learn the most common and clinically most significant dermatologic conditions; 6) become familiar with fundamental dermatologic diagnostic techniques; 7) become familiar with minor skin surgical procedures; and 8) formulate appropriate plans for management of patients with dermatologic disease. .

This will be achieved through experience 1) in the UIHC Dermatology Clinic; 2) at the Iowa City VA Medical Center; 3) with specially-scheduled surgery patients; 4) on the UIHC Dermatopathology Service; and 5) with inpatient consultations.

FACULTY: *Dr. Liu and Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cheryl Moores*
REPORT TO: *Dermatology Clinic*

062:004 RESEARCH IN DERMATOLOGY

OBJECTIVES: The purpose of this elective is to provide introductory experience in dermatological research for those individuals considering greater in-depth training at a later time.

This will be achieved by assignment to research programs that are on-going in the department.

FACULTY: *Dr. Lui and Staff*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Cheryl Moores*
REPORT TO: *Research Advisor*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

062:999 DERMATOLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by the student with the approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Cheryl Moores*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF NEUROLOGY

COURSE DIRECTOR: Dr. Teri Thomsen

CONTACT PERSON: Sara Knepp
S205-B GH
356-8752

Maximum of 15 students per block including the required clerkship and senior electives.

064:302 ADVANCED INPATIENT NEUROLOGY

OBJECTIVES: Intensive period of experience dealing with diagnosis of patients hospitalized because of neurologic disease. The student will be responsible for the initial assessment outline management plans and will be responsible for daily care, under the supervision of faculty and senior residents. Daily clinical conferences and teaching rounds are included.

FACULTY: *Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Sara Knepp*
REPORT TO: *S205-B GH, 8:30 am on the first day.*

064:303 ADVANCED OUTPATIENT NEUROLOGY

OBJECTIVES: Intensive period of experience with the diagnosis and treatment of patients with neurologic disease. The student will be assigned to the Neurology Outpatient Clinic. The student will perform the initial assessment of the patient and through consultation with the faculty, outline the management. Departmental conferences are held daily.

FACULTY: *Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Sara Knepp*
REPORT TO: *S205-B GH, 8:30 am on the first day.*

064:310 CEREBROVASCULAR DISEASE

OBJECTIVES: Period of experience in the evaluation and management of patients with cerebrovascular disease. Will attend conferences and clinical rounds.

FACULTY: *Adams and Davis*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Sara Knepp*
REPORT TO: *S205-B GH, 8:30 am on the first day.*

064:998 NEUROLOGY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Sara Knepp*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

064:999 NEUROLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Sara Knepp*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

COURSE DIRECTOR: Dr. Colleen Stockdale

CONTACT PERSON: Mary Hernandez
51222 PFP
384-8654

066:006 HIGH RISK ANTEPARTUM OBSTETRICS SUB-INTERNSHIP

OBJECTIVES: Under supervision by an upper level resident and faculty member, the student will be responsible for managing many of the high risk patients admitted to the Obstetric Service and will order diagnostic studies and follow their course. He or she will develop expertise in various diagnostic procedures such as non-stress testing and biophysical profiles.

Under resident and staff supervision, the student will see specific patients in the High Risk clinics. At the daily conferences the student will present the patients he or she has evaluated and will participate in the discussion concerning other patients. The student will be expected to present at some of the weekly High Risk Conferences.

He or she may work-up complicated patients admitted to the labor room and assist in their evaluation. He or she may be involved in the intrapartum care and delivery of the high risk obstetric patient.

In addition to the above activities, the teaching goals will be achieved through completion of one formal referenced paper of a specific problem in Maternal-Fetal Medicine chosen by the student and one of the faculty members.

FACULTY: *Drs. Stephen Hunter, Asha Rijhsinghani,
Jennifer Niebyl, Jerome Yankowitz,
Andrea Greiner, Janet Andrews, Mark Santillan
and Kristi Borowski*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Mark Santillan*

REPORT TO: *6 JPP Conf Room at 7:30 am*

066:010 GYNECOLOGIC ONCOLOGY SUB-INTERNSHIP

OBJECTIVES: Develop competency in the evaluation and management of hospitalized patients with serious and often complex gynecologic oncology problems.

- GOALS & OBJECTIVES:**
1. Develop a better understanding of diagnosis, evaluation, and management of patients with a variety of gynecologic malignancies.
 2. Participate in direct patient care under the supervision of faculty and senior-level residents. The student's experiences will consist predominantly (more than 80%) of inpatient responsibilities.
 3. The student will develop proficiency in the management of postoperative gynecological cancer patients, with emphasis on clinical decision-making and development of management plans.
 4. The subintern will assume an appropriate level of management responsibility for all aspects of patient care. Specifically, the student will participate in admissions, write postoperative admission orders, write discharge summaries, and participate in in-house call within the ACGME work hours requirement for residents.
 5. The student will develop proficiency in postoperative wound care and placement of nasogastric tubes, and the student will participate in other on-floor procedures as appropriate.
 6. The student will become proficient in the management of postoperative fluid, electrolyte, and acid-base disorders.
 7. The student will learn to independently diagnose and evaluate postoperative pain, and develop an understanding of postoperative pain management.
 8. The sub-intern will learn to semi-independently manage postoperative patients with anemia and malnutrition.
 9. The student will learn to independently identify critically ill patients who require immediate attention and may have to be transferred to an intensive care setting.
 10. The student will demonstrate proficiency in documenting clinical activities (admission notes, progress notes, discharge notes, and orders) in the medical record.
 11. The student will learn to function appropriately in a clinical management team including nursing staff, students and residents, social service workers, ward clerks, and other support.

- ENABLING OBJECTIVES:**
1. The student will be supervised and interact closely on a daily basis with the senior residents and the faculty staff. Daily feedback regarding notes, decision-making, and management plans will be provided.
 2. The subintern will attend the weekly Gynecologic Oncology Tumor Conference.
 3. At the end of the rotation, the student will present an appropriately referenced topic in gynecologic oncology of his/her choice, illustrated by a patient seen during the rotation.

FACULTY: *Drs. Koen De Geest, Steve Bender, Michael Goodheart, and Anina Ahmed*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Michael Goodheart*

REPORT TO: *3 JPE, 7:30 am*

066:013 REPRODUCTIVE ENDOCRINOLOGY

OBJECTIVES: **The student will:** 1) increase his/her understanding and proficiency in evaluation, diagnosis, and treatment of patients with infertility, amenorrhea, recurrent pregnancy loss, and other gynecological endocrinopathies. 2) increase his/her understanding and ability to evaluate patient pre-operatively, and care for patients post-operatively in the hospital. As a member of a team caring for patients with infertility, reproductive endocrine system disorders, and benign gynecologic conditions; the student will function as a sub-intern under close supervision by upper level resident and faculty members.

This will be achieved through: 1) active participation in the Reproductive Endocrinology-Infertility Clinic two days a week; 2) participation in related major in-patient and minor out-patient surgical procedures including pre and post operative evaluation and care; 3) attendance at weekly student lectures, participation and assistance in performing hysterosalpingograms one afternoon per week, assistance in performing pelvic ultrasounds throughout the week, and study of assigned reading material. Students will be expected to select and complete one referenced presentation of a specific problem in reproductive endocrinology.

This elective is designed to accommodate students planning to take further training in Obstetrics & Gynecology.

FACULTY: *Drs. Brad Van Voorhis, Craig Syrop,
Ginny Ryan, Bill Davis, Barb Stegmann, and
Hakan Duran*

MAX ENROLLMENT: *1*

OFFERED: *Closed January thru May*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Ginny Ryan*

REPORT TO: *Ob/Gyn Outpatient Clinic, 3rd Floor PFP,
8:00 am*

066:017 CONTINUITY OF CARE IN OUTPATIENT OBSTETRICS AND GYNECOLOGY

DESCRIPTION: Continuity of Care in Outpatient Gynecology is designed to provide the fourth year medical student with a longitudinal continuity of care experience either at the VAMC Gynecology Clinic or the UIHC Vulvar Vaginal Disease Clinic. These are referral gynecology clinics in which women are seen for contraceptive management and gynecologic problems of both an acute and chronic nature. Throughout the year, for one half-day each week, the student will be actively involved in patient care and work closely with a preceptor. We will stress an evidence-based approach and encourage the student to individually research gynecologic topics of interest based on patient encounters. The student will have his/her own patient list. The student may choose to attend departmental Grand Rounds as can be accommodated by his/her schedule. The student will journal his/her reflections concerning the experience at least quarterly in the form of a brief written paper.

GOALS: The elective is designed to prepare the interested student for outpatient women's health care, building on experience gained in the third year obstetrics and gynecology clerkship.

OBJECTIVES: Each student will

1. Demonstrate increased knowledge of outpatient women's health care including preventive health maintenance.
2. Display increased skills in performance of pelvic and breast examinations including performance of Pap smear and cervical cultures.
3. Identify abnormal findings on pelvic and breast examinations.
4. Discuss management algorithms for commonly encountered gynecologic problems.
5. Exhibit communication skills and cultural competency skills working with patients, health care team members and patients families.
6. Establish increased system-based skills in the VAMC or UIHC environment.
7. Develop a mentoring relationship with a primary faculty preceptor.

COURSE DIRECTORS: *Veronika Kolder, MD and Colleen Stockdale, MD*

MAX ENROLLMENT: 2

LENGTH OF ELECTIVE: *Full Academic Year*

ADMINISTRATIVE CONTACT: *Mary Hernandez*

SPECIAL CONDITIONS: *Students must receive permission from Dr. Stockdale or Dr. Kolder to enroll in this elective. The elective will follow the guidelines developed by the Office of Student Affairs and Curriculum of the UICCOM. The student is expected to attend 80% of the scheduled sessions recognizing that conflicting commitments may compromise perfect attendance. Makeup sessions may be arranged at the discretion of the course director to satisfy attendance requirement. An orientation meeting will be held prior to beginning the course and is to be scheduled with the course director at a mutually convenient time. The student will be expected to schedule quarterly meetings with the course director for formative feedback and to review his/her reflection paper.*

OSAC GUIDELINES FOR ALL COC CLERKSHIPS:

1. *The COC is taken concurrently with other required and elective courses during the M4 year.*
2. *Students are not allowed to register for more than one COC.*
3. *Students must attend 80% of 42 schedulable weeks = 34 COC sessions.*
4. *Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.*
5. *Students must limit their time off request from 2 week clerkships to one half day per clerkship (i.e., only one COC session during a 2 week clerkship).*
6. *Students must have limited "off campus" weeks including away and global electives to meet the 34 session COC requirement.*
7. *Students are not allowed to register for a COC and be a group facilitator*
 - Facilitating/teaching in Case-Based Learning in FCP I*
 - Case-Based Learning in FCP II*
 - Physical Exam Skills in FCP II*
 - Patient-Centered Learning in FCP III*
 - Case-Based Learning for admission interviews*

066:018 COMMUNITY-BASED OB/GYN, WASHINGTON, IOWA

OBJECTIVES: Students will be exposed to a wide variety of out-patient and in-patient obstetric and gynecologic patients. OB/GYN histories and examinations are to be performed and mastered. The student will be exposed to procedures with frequent supervised active participation where appropriate. The student is expected to devote a portion of their time to reading and review of current literature thereby assisting in the establishment of life-long learning. A further objective of this course is to expose the student to the “art of medicine” as well as the functioning of a private practice setting.

FACULTY: *Lloyd Holm, D.O.*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Mary Hernandez*

SPECIAL CONDITIONS: *Washington County Hospital and Clinic is located 30 miles south of Iowa City. Tuesday mornings will be spent at UIHC attending Grand Rounds and educational conferences (as determined by the Clerkship Director). Tuesday afternoons will be devoted to personal study time.*

OBJECTIVES: This is a four week elective rotation. No weekend or evening call is required. The student will function as an active member of the Family Planning Services team, participating in clinical activities, including clinic and outpatient procedures. The student will spend time in the UIHC Gynecology Procedure Clinic, the Fetal Diagnosis and Therapy suite, as well as at the Emma Goldman and Planned Parenthood Clinics.

Each student will

1. Observe typical family planning practices, including ambulatory clinic visits and clinical outpatient procedures and surgeries.
2. Learn and understand the basic mechanisms of various methods of contraception and appropriate candidates for these contraceptive methods.
3. Learn and understand the management options of spontaneous abortion including expectant, medical and surgical treatment of miscarriage.
4. Become familiar with medical regimens and surgical methods for inducing abortion in the first and second trimesters.
5. Learn and demonstrate the basic history and physical exam performed in women presenting for contraception management and various gynecological procedures.
6. Observe and participate in various office procedures such as suction D&Cs, endometrial ablations, office hysteroscopy and sterilization.
7. Observe ultrasound examinations during pregnancy, including diagnosis of miscarriage, fetal anomalies and karyotype abnormalities.

FACULTY: *Colleen Stockdale, MD
Abby Hardy-Fairbanks, MD*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Mary Hernandez*

SPECIAL CONDITIONS: *The student will be directly supervised by the Medical Director of the Ryan Residency Family Planning Training Program and various UIHC gynecology staff as well as physicians and health care providers on staff at the Emma Goldman and Planned Parenthood Clinics. At the end of the rotation the physicians will consult with other members of the clinical team and will provide a joint evaluation on the student's performance.*

066:020 NON-INTERVENTIONAL BIRTH WITH THE NURSE MIDWIVES

OBJECTIVES: Provide medical students with an opportunity for experience with normal physiologic birth. Many students who have completed their OB/GYN Clerkship have expressed a desire for more experience with normal birth. This elective will give them the opportunity to participate in the intrapartum and post partum care of low risk women. The primary focus of the elective will be to gain knowledge of evidence based practices that support normal physiologic birth, commonly used intrapartum interventions, when those interventions are appropriate and how supportive and interventional practice affect outcome. The student will need to have a flexible schedule to accommodate call time to maximize their intrapartum experience.

FACULTY: *Himmelreich, Dellos, Potter, Cook, Gray*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 weeks*

ADMINISTRATIVE CONTACT: *Mary Hernandez*

REPORT TO: *Labor and Delivery at 7:15 AM*

PREREQUISITES: *Completion of 066:004 Clinical Obstetrics & Gynecology*

066:998 OB/GYN ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

The student must select the specific area of interest and develop a written educational plan consisting of their goals and objectives during the elective.

The student must secure a faculty member to serve as the supervisor and mentor during the elective. The faculty must agree in writing to provide supervision and mentoring to meet these educational goals and objectives. The faculty must agree to provide a standard COM student evaluation within one week of completion of the elective.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Mary Hernandez*
REPORT TO: *Appropriate instructor*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

066:999 OB/GYN OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

The student must select the specific area of interest and develop a written educational plan consisting of their goals and objectives during the elective.

The student must secure a faculty member to serve as the supervisor and mentor during the elective. The faculty must agree in writing to provide supervision and mentoring to meet these educational goals and objectives. The faculty must agree to provide a standard COM student evaluation within one week of completion of the elective.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Mary Hernandez*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF OPHTHALMOLOGY

COURSE DIRECTOR: Dr. Reid Longmuir

CONTACT PERSON: Patricia Zahs
11196 PFP
356-4475

067:100 OCULAR PATHOLOGY

OBJECTIVES: This course is designed to introduce the student to ophthalmic pathology and the basic principles of ocular disease.

GOALS: Attitude:
1) To develop an appreciation for the importance of communication between the surgeon and pathologist.
2) To learn to incorporate preparation of specimens for pathologic examination into the surgical plan.
3) To appreciate the manner in which pathologic specimens should be handled for diagnostic purposes.

Knowledge:

- 1) To understand the basic pathologic mechanisms of disease and understand how these may manifest in the eye and ocular adnexae.
- 2) To understand the relationship between clinical manifestations of ocular disease and the pathologic findings (clinicopathologic correlation).

Skills:

- 1) To recognize basic histology of the eye and ocular adnexae.
- 2) To become familiar with terminology in the field of ophthalmic pathology.
- 3) To develop a basic differential diagnosis based on pathologic findings.

This course is designed to introduce the student to ophthalmic pathology and the basic principles of ocular disease. Working with the staff and residents in the Ophthalmic Pathology Laboratory in the Dept. of Ophthalmology, the student will participate in the gross and microscopic examination and diagnosis of surgical and autopsy specimens from the eye and ocular adnexae. Clinicopathologic correlation will be stressed with problems in an unknown case format. Students will be expected to supplement their practical experience with independent reading and examination of histopathologic teaching materials. A final examination will be given. Students would be expected to make one clinicopathologic correlation (CPC) presentation at morning conference toward the end of their elective. A clinical ophthalmology elective or similar previous clinical exposure is highly recommended prior to taking this course.

This course is designed as a 4 week elective (5 days a week/8 hours per day). Not available July, course may be abbreviated in May and October due to major ophthalmology meetings.

FACULTY: *Nasreen Syed, M.D.*
MAX ENROLLMENT: *1*
OFFERED: *All periods except Block 1*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Patricia Zahs*
REPORT TO: *233 MRC, 9:00 am*
SPECIAL CONDITIONS: *Instructor permission required*

067:101 EXTERNAL EYE DISEASE

OBJECTIVES: Intended for student interested in learning about the most common non-refractive eye disorders.

The student is expected to: 1) learn basic techniques of eye examination; 2) learn to diagnose common diseases of the eyelids, conjunctiva, and cornea; 3) learn basic principles of therapeutics of external eye disease.

This will be achieved by: 1) reading assignments; 2) daily conferences; 3) clinical work-up of patients; 4) self-assessment programs.

The student will be tested throughout the elective and at its completion.

FACULTY: *Kenneth Goins, M.D.*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Patricia Zahs*
REPORT TO: *Arranged*

067:102 NEURO-OPHTHALMOLOGY

OBJECTIVES: Intended for students with an interest in Neurology, Neurosurgery, Internal Medicine, or Ophthalmology.

The student is expected to learn the diagnosis and management of neuro-ophthalmic problems (visual loss, diplopia, field loss, pupil dysfunction).

This will be achieved by working up patients in the Neuro-ophthalmology Clinic and presenting them to the faculty.

FACULTY: *Randy Kardon, M.D., PhD*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Patricia Zahs*
REPORT TO: *Arranged*

067:109 MOLECULAR OPHTHALMOLOGY

OBJECTIVES: Four week course designed to introduce the student to the use of molecular ophthalmology in the study of inherited eye diseases. Directed reading and library research are augmented by clinical and laboratory activities.

FACULTY: *John Fingert, M.D., PhD*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Patricia Zahs*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Instructor permission required.*
Student must send a written request describing their interest in molecular genetics and a reference.

067:998 OPHTHALMOLOGY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *3*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Patricia Zahs*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

067:999 OPHTHALMOLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Patricia Zahs*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF OTOLARYNGOLOGY

COURSE DIRECTOR: Dr. Scott Graham

CONTACT PERSON: April Thompson
21226 PFP
356-3317

068:100 SUB-INTERNSHIP IN OTOLARYNGOLOGY

OBJECTIVES: **The student will:** 1) become proficient in the physical examination of the head and neck; 2) increase his ability to diagnose, evaluate and manage common disorders of the ears, nose, and throat; 3) work in the outpatient clinic, on inpatient services, and in the operating room.

This will be achieved through: 1) examination of a large number of patients; 2) assuming interns level responsibility inpatient care; 3) independent study; 4) exposure to the operating room if desired.

FACULTY: *Staff*
MAX ENROLLMENT: *3*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *April Thompson*
REPORT TO: *Dr. Scott Graham, Oto Clinic, 8:00 am*

068:998 OTOLARYNGOLOGY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *April Thompson*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

068:999 OTOLARYNGOLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval by department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *April Thompson*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF PATHOLOGY

SENIOR CONTACT PERSON: Jan Frerichs
147 MRC
335-8193

069:241 AUTOPSY PATHOLOGY CLERKSHIP

OBJECTIVES: **The student will:** 1) increase his/her knowledge of the gross and histologic morphology of a wide variety of diseases and injuries; 2) learn the basic aspects of the postmortem examination and clinicopathologic correlation; 3) become acquainted with the role of the autopsy in quality control, public health and medicolegal death investigation; and 4) improve basic case presentation skills.

These objectives will be achieved by: 1) assisting in the complete postmortem examination; 2) reviewing charts as part of the autopsy examination; and 3) participating in weekly autopsy conferences and brain cutting sessions.

Students will have some opportunity for exposure to surgical pathology.

FACULTY: *Dr. Marcus Nashelsky, Dr. Dennis Firchau and other anatomic pathology faculty attending on the autopsy service*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Jan Frerichs*
REPORT TO: *Autopsy Services, E140 GH*

069:245 HEMATOPATHOLOGY CLERKSHIP

OBJECTIVES: **The student will:** Depending on the student's interest, participate in one or more of the following: 1) to develop proficiency in the evaluation of peripheral blood and bone marrow, lymph node, and body fluid cell evaluation; 2) increase skills in recognition of benign and malignant disorders of the hematopoietic system; 3) learn the appropriate laboratory work-up of anemia, leukocytic disorders and disorders of thrombosis and coagulation; 4) increase understanding of the functioning of the hematology laboratory; and/or 5) correlate hematologic findings with molecular, immuno and cytogenetic laboratory findings.

This will be achieved through: 1) performance of written reports on peripheral blood and bone marrow cases; 2) attendance at daily review of bone marrows and abnormal peripheral blood and body fluid films; 3) observation of performance of bone marrow aspiration and biopsy procedures; 4) work up of patients with coagulopathies with emphasis on both clinical and laboratory aspects of the disorder; 5) attendance at hematopathology and coagulation conferences.

The student can tailor the clerkship with individual needs with options of rotation through the bone marrow laboratory, core hematology laboratory, special coagulation laboratory.

FACULTY: *Drs. N. Rosenthal and S. Syrbu*
MAX ENROLLMENT: *1*
OFFERED: *All Periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Jan Frerichs*
REPORT TO: *Dr. N. Rosenthal, 6233 RCP, 4-8751*
SPECIAL CONDITIONS: *Instructor consent required.*

069:246 SURGICAL PATHOLOGY

OBJECTIVES: 1) To become acquainted with the contributions to and limitations of tissue examination to patient care, 2) to learn basic aspects of tissue examination and approaches to anatomic diagnosis, 3) to be exposed to a variety of diseases at the gross and microscopic level.

The student will actively participate in surgical pathology by: 1) assisting in the gross and microscopic examination, clinical pathological correlation and report preparation of current surgical and medical specimens, 2) participating in daily surgical pathology conferences.

FACULTY: *Dr. De Young and Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Lynn Westphal*
REPORT TO: *Surgical Pathology, 5244 RCP*
SPECIAL CONDITIONS: *Scheduling approval Dr. De Young.*

069:247 BLOOD BANK CLERKSHIP

OBJECTIVES: To be exposed to all activities and functions of the DeGowin Blood Center. Upon completion of the clinical clerkship **the student will:**

Be acquainted with Donor Center activities and regulations. 1) Understand the preparation of and indications for the transfusion of components such as platelets cross matched and, HLA-matched platelets, granulocytes, leukocyte-reduced blood components, etc. 2) Be aware of indications for, toxicity of and techniques for performing therapeutic hemapheresis procedures. 3) Answer requests from the clinical services regarding the transfusion of blood components and special services (e.g., therapeutic plasma exchange). 4) Specific procedures to be observed include: plasma exchange, therapeutic phlebotomy, autologous blood donation, peripheral blood progenitor cell collection, platelet collection, granulocyte collection, cytopheresis donor screen and monitoring.

Be familiar with Blood Bank procedures and regulations. 1) Know techniques of erythrocyte typing, compatibility testing, antibody detection and antibody identification. 2) Understand the clinical aspects of antibody and compatibility problems and of transfusion reactions. 3) Specific procedures to be observed include: Pretransfusion compatibility test, RBC type and screen, RBC and platelet antibody detection, RBC antibody identification, emergency issue of blood policy, cryopreservation of progenitor cells.

Be able to apply knowledge of Transfusion Medicine to other specialties of medicine and surgery.

FACULTY: *Drs. M. Knudson, A. Schlueter, and T. Raife*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Jan Frerichs*
REPORT TO: *Attending Faculty, 9:15 am, Blood Center
Conference Room SW249 GH*

069:998 PATHOLOGY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Jan Frerichs*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

069:999 PATHOLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Jan Frerichs*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF PEDIATRICS

COURSE DIRECTOR: Dr. Jerold Woodhead

CONTACT PERSON: Cathy Chavez
356-7824
2612 JCP

The pediatric inpatient services are staffed with a physician care team which includes the attending faculty, pediatric residents, and senior and junior medical students. The teams include the senior students as an integral part of each team. **All Pediatric inpatient rotations will include night call.**

070:013 GENERAL PEDIATRICS SUB-INTERSHIP, BLANK CHILDREN'S HOSPITAL, DES MOINES

Objectives The pediatric sub-internship is designed to

- Advance pediatric-specific knowledge and clinical competency
- Expand awareness of the complex interrelations between families and the healthcare team
- Promote and continue education about the healthcare system
- Prepare students for the challenges and demands of the internship.

General Guidelines Sub-interns will spend four weeks at BCH, during which time they will carry the full responsibilities of interns, although with more direct supervision by the supervising resident and the attending pediatrician. Sub-interns will follow their own patients in a manner similar to that of the interns on the service and will be responsible for their patients at a level commensurate with their training.

Duty Hours and on call assignments

- Duty hours will conform to the resident duty hours published by the ACGME and implemented at BCH. Specific details will be provided to sub-interns at the time of orientation to the rotation.
- Sub-Interns will be assigned to work 5 consecutive nights during one week of the rotation (Sunday – Thursday, 6 pm – 7 am).

Patient assignments

- Sub-interns should expect to carry 4-6 patients, under the direct supervision of the supervising resident (PL3 or PL2) and the direct oversight of the attending pediatrician.
- Patients will be assigned by the supervising resident to balance the work load and will reflect common acute and chronic problems of pediatric patients.

FACULTY: *Rich Robus, M.D. and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Wendi Kruger, Des Moines Area Medical Ed Consortium
Office, 8:00 am, 515-241-4455*
SPECIAL CONDITIONS: *Room provided. Food stipend provided.
Time off during this rotation is discouraged.
Dr. Robus must approve any such request at least one month
in advance.*
EVALUATIONS: *Evaluations will be sent to Dr. Robus.
Students will pick them up from him.
Completion of a mid-rotation assessment is mandatory.*

**070:014 PEDIATRIC EMERGENCY ROOM,
BLANK CHILDREN'S HOSPITAL, DES MOINES**

OBJECTIVES: **The student will** 1) Increase his/her basic knowledge of pediatric emergencies and urgent care; and 2) Increase his/her proficiency in pediatric emergency medicine procedures.

GENERAL GUIDELINES: Students will care for patients from birth to age 18 years and will be exposed to a wide variety of pediatric urgencies and emergencies. Students will also learn procedures commonly performed in this setting. Students will be assigned 10-12 hour shifts and average 50-60 hours per week.

FACULTY: *Rich Robus, M.D. and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Wendi Kruger, Des Moines Area Medical Ed Consortium Office, 8:00 am, 515-241-4455*
SPECIAL CONDITIONS: *Room provided. Food stipend provided.*
EVALUATIONS: *Evaluations will be sent to Dr. Robus. Students will pick them up from him. Completion of a mid-rotation assessment is mandatory.*

070:015 NEONATAL ICU, BLANK CHILDREN'S HOSPITAL, DES MOINES

OBJECTIVES:

- Function as an intern-equivalent on the Neonatal ICU teaching service at Blank Children's Hospital.
- Students will learn to care for critically ill newborns, increase their skill in ventilation, and learn application of physiologic principles in critical care.
- Will be responsible for the care of selected critically ill neonates under the supervision of senior pediatric residents & staff neonatologists.
- Participate in once-weekly morning report, daily noon conference, and weekly Grand Rounds conferences.

FACULTY: *Rich Robus, M.D. and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Wendi Kruger, Des Moines Area Medical Ed Consortium Office, 8:00 am, 515-241-4455*
SPECIAL CONDITIONS: *Room provided. Food stipend provided.*
EVALUATIONS: *Evaluations will be sent to Dr. Robus. Students will pick them up from him. Completion of a mid-rotation assessment is mandatory.*

070:016 PEDIATRIC HEMATOLOGY/ONCOLOGY

OBJECTIVES: **The student will** learn current diagnostic and therapeutic approaches to children with disorders of red blood cells, white blood cells, platelets, and coagulation. Students will observe the multidisciplinary approach used for the treatment of children with oncologic diagnosis. Students will gain experience in current measures for evaluation and treating children with oncologic diseases. Students will be able to recognize common hematologic abnormalities by examination of peripheral blood smear and bone marrow specimens.

The above goals will be achieved by attending pediatric hematology/oncology out-patient clinics. Students will participate in the initial diagnostic evaluation of patients referred to the Pediatric Hematology-Oncology Service, interpret the microscopic examination of blood smears and bone marrow specimens, and complete a selective reading list.

FACULTY: *Drs. Tannous, Abusin, El-Sheikh, O'Dorisio, and Staber*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating on-line evaluations.*

Completion of a mid-rotation assessment is mandatory.

PREREQUISITES: *Completion of M3 year*

070:017 PEDIATRIC NEUROLOGY

OBJECTIVES: **The student will:** Increase proficiency in doing a neurologic examination on infants, children and young adults. Students will develop competence at obtaining a neurologic history, including developmental history and genetic history. The student will learn an approach to diagnosing and managing common and rare neurologic problems in childhood, including seizures, developmental delay, neurocutaneous disorders and muscular dystrophy. Through exposure to patients in follow-up visits, the student will learn the natural history of common neurologic disorders. Students will learn to use written and computer based resources and interpret the results of laboratory testing (CT, MRI, EEG) in the diagnostic evaluations.

These goals will be achieved through: Clinical activities will be focused on the outpatient clinic, with limited involvement in the inpatient service and consult service. The student will see patients independently and staff them with an attending. Students will participate in clinical conferences, and will be expected to read selected readings in pediatric neurology. Students registered for a 4 week rotation will give a brief presentation on the topic of their choosing to faculty and residents.

FACULTY: *Drs. Bassuk, Bonthius, Joshi, Mathews,
and Stasheff*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating on-line
evaluations.*

*Completion of a mid-rotation assessment is
mandatory.*

PREREQUISITES: *Completion of M3 year*

070:019 PEDIATRIC CARDIOLOGY

OBJECTIVES: This elective would be suitable for students with an interest in pediatrics, family practice and cardiology. The student will learn the skills required to assess the cardiovascular status of a child in an outpatient situation.

The rotation focuses on enhancing physical exam skills and physiology knowledgebase from a cardiovascular perspective. Students will learn to clinically integrate cardiovascular physiology with physical findings and laboratory tests. An emphasis will be placed on learning to differentiate innocent versus organic heart murmurs. By the end of the rotation, students should be able to explain the mechanism for the production of heart sounds and murmurs, distinguish normal from abnormal cardiovascular signs and symptoms and explain normal cardiac physiology as it applies to interpreting physical exam or laboratory tests. Students will have the opportunity to participate in all cardiology clinical activities including inpatient rounds, outpatient clinics, cardiac radiography, teaching conferences; including cardiac catheterization conferences, surgical conferences, journal club and seminars in pediatric cardiology are held weekly. The elective is well-structured, yet can be tailored to meet individual interests.

FACULTY: *Drs. Atkins, Bartlett, Divekar, Edens, Law, Mahoney, Morriss, Reinking, Scholz and Von Bergen*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating an on-line evaluation to the inpatient service cardiologist on service at the end of the rotation. Completion of a mid-rotation assessment is mandatory.*

PREREQUISITES: *Completion of the M3 core clerkships in Pediatrics, Internal Medicine, and Family Medicine.*

070:023 DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS

OBJECTIVES: 1. Understand the normal developmental sequence of childhood, and the impact of environmental influences. 2. Be aware of the antecedents of selected developmental disabilities including ADHD, autism, intellectual and physical disabilities. 3. Identify methods to detect cognitive and motor delays in infancy. 4. Identify methods to detect physical and cognitive delays in the preschool child. 5. Understand the long-term consequences of developmental disabilities. 6. Work with an interdisciplinary team and understand its advantages in addressing developmental disabilities.

FACULTY: *Dianne McBrien, M.D. and staff*

MAX ENROLLMENT: *1*

OFFERED: *Closed 3/4/13 and 4/1/13 (last 2 blocks)*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating on-line evaluations.*

Completion of a mid-rotation assessment is mandatory.

PREREQUISITES: *Completion of M3 first semester and Pediatrics clerkship*

070:025 CHILD ABUSE AND NEGLECT

OBJECTIVES: The student will learn to recognize the varying presentations of child abuse and neglect (CAN) and when to consider CAN in the differential diagnosis of child or adolescent health problems. The student will further develop an understanding of the legal obligation placed on physicians as mandatory reporters of suspected child abuse and neglect. Finally, the student will develop an understanding of the physician's role in preventing CAN and family violence.

The above goals will be achieved through a program of self-education plus clinical activities that will teach the student an approach to the assessment of family dynamics and the early identification of children at risk. Scheduled activities with the physician director of the CAN service, social workers, members of the legal profession, and community services that support families will provide the student with an appreciation for the multidisciplinary management of CAN.

FACULTY: *Resmiye Oral, M.D.*
MAX ENROLLMENT: *1*
OFFERED: *Closed 8/20, except 2 week starting 8/20*
Closed 10/15, except 2 week starting 10/15
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*
EVALUATIONS: *Students are responsible for initiating on-line*
evaluations of their clinical performance.
Students must also complete on-line evaluation of
the course.
Completion of a mid-rotation assessment is
mandatory.
PREREQUISITES: *Completion of the M3 Clinical Pediatrics*
clerkship

OBJECTIVES: **The student will:** 1) increase his/her ability to care for the critically ill newborn; 2) learn the application of physiological principles in critical care; 3) increase his/her skill in the use of assisted ventilation.

This will be achieved through: 1) assuming responsibility for the care of a number of infants; 2) reviewing references and current literature pertaining to the neonate; 3) participating in conferences, teaching activities and clinical rounds; 4) taking night call in the NICU.

STUDENTS WILL BE EXPECTED TO TAKE NIGHT CALL.

FACULTY: *Dr. J. Segar and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*
SPECIAL CONDITIONS: *Time off during this rotation is discouraged.
Peds Ed Office must approve any such request at
least one month in advance of rotation.*
EVALUATIONS: *Students are responsible for initiating on-line
evaluations.
Completion of a mid-rotation assessment is
mandatory.*

- The pediatric sub-internship is designed to
- Objectives**
- Advance pediatric-specific knowledge and clinical competency
 - Expand awareness of the complex interrelations between families and the healthcare team
 - Promote and continue education about the healthcare system
 - Prepare students for the challenges and demands of the internship.
- General Guidelines**
- Sub-interns will spend four weeks at UI Children’s Hospital, during which time they will carry the full responsibilities of interns with direct oversight by the supervising resident and the attending pediatrician. Sub-interns will follow their own patients in a manner similar to that of the interns on the service and will be responsible for their patients at a level commensurate with their training. Each sub-intern will develop an individualized learning plan at the start of the rotation. The ILP will be reviewed at the midpoint and end of the rotation.
- Duty Hours and on call assignments**
- Duty hours will conform to the resident duty hours published by the ACGME and implemented at UI Children’s Hospital. Specific details will be provided to sub-interns at the time of orientation to the rotation.
 - On call assignments will be determined by the Pediatric Chief Residents.
- Patient assignments**
- Sub-interns should expect to carry up to 4-5 patients, under the direct supervision of the supervising resident (PL3) and the direct oversight of the attending pediatrician.
 - Patients will be assigned by the supervising resident to balance the work load and will reflect common acute and chronic problems of pediatric patients.

Consists of three individual “teams”:

- Red Team:** Hematology/Oncology, Gastroenterology, Surgery, Endocrinology, and Nephrology
- Blue Team:** General Pediatrics, Cardiology, Allergy/Pulmonology, and Neurology
- NICU Bays 2&3:** Neonatology-newborns with a broad variety of illnesses.

PLEASE CONTACT THE PEDIATRIC EDUCATION OFFICE TO INDICATE YOUR TEAM PREFERENCE WITHIN ONE WEEK AFTER THE COMPUTER ASSIGNMENTS ARE MADE. First come, first served. You are not able to put preferences into the computer. Those who do not indicate a preference will be assigned a team.

Students will be expected to take night call.

- FACULTY: *Staff*
- MAX ENROLLMENT: *3*
- OFFERED: *All periods*
- LENGTH OF ELECTIVE: *4 weeks*
- ADMINISTRATIVE CONTACT: *Cathy Chavez*
- REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*
- SPECIAL CONDITIONS: *Time off is discouraged. Students must have no other obligations except the Pediatric COC rotation. Peds Ed Office must approve any such request at least one month in advance of rotation.*
- EVALUATIONS: *Students are responsible for initiating on-line evaluations. Completion of a mid-rotation assessment is mandatory.*

OBJECTIVES:

The student will:

1. Learn the pathophysiological basics of critical illness in children.
2. Gain experience in the utilization of invasive and non-invasive pulmonary and hemodynamic monitoring.
3. Gain experience in the utilization of inotropic and vasoactive drugs to achieve hemodynamic stability.
4. Gain experience in the management of fluid, electrolyte, and acid-base disturbances associated with critical illness.
5. Gain experience in the utilization of life support technology, including mechanical ventilation, noninvasive ventilation, continuous hemofiltration, and extracorporeal membrane oxygenation.
6. Gain experience in the post-operative management of general surgery, neurosurgery, orthopedic surgery, otolaryngology and cardiothoracic surgery patients.
7. Gain experience in the care of patients with closed head injury and other traumatic injuries.
8. Gain experience in assessing patients by organ systems and understand organ interplay.
9. Gain experience in the ethical considerations involved in the care of critically ill children.

Expectations:

1. Direct care of critically ill children in the Pediatric Intensive Care Unit under the supervision of pediatric residents and staff.
2. Gather concise data from EMR and present it in an organized manner.
3. Formulate a plan of care.
4. Participation in educational activities and formal clinical rounds.
5. Students will be expected to take night call.
6. Read about patients.

FACULTY: *Pediatric Critical Care Staff*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

SPECIAL CONDITIONS: *Time off during this rotation is discouraged.
Peds Ed Office must approve any such request at
least one month in advance of rotation.*

EVALUATIONS: *Students are responsible for initiating on-line
evaluations.*

*Completion of a mid-rotation assessment is
mandatory.*

070:030 MEDICAL GENETICS FOR THE SENIOR STUDENT

OBJECTIVES: The minimum length of this elective is 4 weeks. Longer periods of time may be arranged with the permission of the instructor.

Students participate in all clinical activities of the Division of Medical Genetics/Department of Pediatrics. This includes two- three weekly Genetics Clinics at University Hospitals (10-15 hours), a weekly metabolic management clinic (3-4 hours), a weekly journal club, a weekly Clinical and Molecular Genetics Case Review conference (2 hours), weekly rounds on inpatients (1-2 hours), and one Regional Genetics Consultation Service Clinic. Students also assist in the evaluation and counseling of referred patients from other clinics/inpatient areas at University Hospitals. Opportunities exist for students to be exposed to laboratory techniques of chromosome and/or DNA analysis through the Cytogenetics and Molecular Genetics laboratories. The student will present a 10 minute case review at the end of the rotation.

Primary emphasis during this elective is to prepare the student to recognize and feel competent with genetic/birth defect problems present in his/her future patients. A wide variety of genetics and birth defect problems will be seen. Clinical applications are stressed.

FACULTY: *Pamela Trapane, Kim Keppler-Noreuil,
Val Sheffield, Oleg Shchelochkov, and
Alvaro Serrano Russi*

MAX ENROLLMENT: *1*

OFFERED: *Closed 6/25 and 11/12 blocks*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating on-line
evaluations.
Completion of a mid-rotation assessment is
mandatory.*

070:031 PEDIATRIC NEPHROLOGY

- OBJECTIVES:**
- Familiarize the student with the pathophysiology, diagnosis and management of primary renal and hypertensive disorders
 - Give the student an overview of the nephrologic manifestations of systemic disease.
 - Demonstrate a comprehensive approach to chronic disease by including the student in case management discussions.
 - Integrate molecular biologic/genetic principles with the clinical diagnosis and management.

At the end of a four week rotation, the student will be able to:

- Give a cogent case presentation including the elements pertinent to these disorders
- Perform a system-directed physical examination.
- Interpret the parameters of a full metabolic work-up.
- Recognize striking features of an abnormal urine analysis, blood pressure, etc.
- Increase understanding of the molecular basis of disease by directed literature review.
- Have some appreciation for the techniques for patient Dialysis.
- Increase his/her familiarity with the principles of managing renal and hypertensive disease patients (acute and chronic).

Key Responsibilities of the student:

- No night call or weekends are required on this service.
- Students act as primary consultants for inpatient consultations, under the supervision of a resident and an attending.
- Students are primary physicians seeing outpatients with residents, fellow and attending supervision.
- Students attend all educational activities of the service.
 - Didactic teaching sessions
 - Patient management conferences
 - Slide review, teaching sessions and research seminars
- Students are expected to research and present a selected topic to the service.

FACULTY: *Drs. Brophy, Jetton, and Nester*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating on-line evaluations.*

Completion of a mid-rotation assessment is mandatory.

PREREQUISITES: *Completion of M3 Pediatrics clerkship.*

070:033 PEDIATRIC GASTROENTEROLOGY

OBJECTIVES: **The student will** increase his proficiency in the diagnosis, management and treatment of various diseases of the gastrointestinal tract, liver and pancreas and their nutritional consequences during infancy and childhood. A greater depth of knowledge concerning normal and abnormal nutrition will also result.

The objectives will be achieved through: 1) Participation in clinical activities such as daily ward rounds, consultations on pediatric patients with GI problems, outpatient clinics, and diagnostic procedures such as endoscopies; 2) Attending teaching and patient management conferences.

FACULTY: *Drs. Warren Bishop, Dawn Ebach, Eyad Hanna, Riad Rahhal, and Aliye Uc*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

SPECIAL CONDITIONS: *Contact Dr. Bishop by phone (356-2950)
1-2 days before starting rotation.*

EVALUATIONS: *Students are responsible for initiating on-line evaluations.*

Completion of a mid-rotation assessment is mandatory.

PREREQUISITES: *Completion of M3 Pediatrics Clerkship*

070:043 PEDIATRIC ALLERGY AND PULMONOLOGY

- OBJECTIVES:** **The student will** within the limits of time available:
1. Learn to obtain a historical data base to make the diagnosis of and characterize the following problems:
 - a) Asthma
 - b) Cystic fibrosis
 - c) Bronchiectasis
 - d) Bronchopulmonary dysphasia
 - e) Interstitial lung disease
 - f) Anatomical disorders of the respiratory tract
 - g) Rhinitis
 - h) Atopic dermatitis
 - i) Urticaria
 - j) Angioedema
 - k) Anaphylaxis
 - l) Stinging insect reactions
 2. Learn to perform and interpret pulmonary function testing in children and to combine this information with history, physical, chest x-ray, and blood gases in defining physiological abnormalities of the lower airway.
 3. Be able to appropriately choose, perform and interpret skin tests for inhalant allergens, and demonstrate an understanding of the indications and limitations of these tests.
 4. Learn appropriate environmental, immunological, and pharmacologic management of the diseases listed under #1.
 5. Review the basic science areas of immunology, physiology, and pharmacology related to the diagnosis and treatment of the diseases listed under #1.
- These goals will be achieved through** exposure to ambulatory patients in the clinics and the performance of consultations on in-patient and out-patients. Students will assist in performing and interpreting pulmonary function testing on their own and other patients. Educational reading material and library references will be available.

FACULTY: *Dr. Weinberger and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*
EVALUATIONS: *Students are responsible for initiating on-line evaluations.*
 Completion of a mid-rotation assessment is mandatory.
PREREQUISITES: *Completion of M3 first semester and Clinical Pediatrics*

070:055 GENERAL PEDIATRIC OUTPATIENT CLINIC

OBJECTIVES: This elective is designed to increase the knowledge of fourth year medical students in the principles of general pediatrics and adolescent medicine. Students will participate in the Family Care Center General Pediatric Clinics, and the Newborn nursery. Clinic assignments include: Pediatric/Adolescent Diagnostic Clinic and Pediatric Acute Care Clinic. Faculty in the Division of General Pediatrics and Adolescent Medicine will serve as preceptors for UI Children's Hospital clinic-based activities. Students are expected to participate in Division conferences. Students participating in the elective will be provided a syllabus of selected readings in general pediatrics and adolescent medicine.

FACULTY: *Division of General Pediatrics and Adolescent Medicine - Drs. Benson, Christensen, D'Alessandro, Larew, Link, McConkey, Miller, Moonjely, Murph, Oetting, Phillips, Stier, Sullivan, Vigil and Woodhead*

MAX ENROLLMENT: *1*

OFFERED: *Closed 6/25 and 7/23*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*

EVALUATIONS: *Students are responsible for initiating on-line evaluations.*

Completion of a mid-rotation assessment is mandatory.

PREREQUISITES: *Completion of M3 Pediatrics Clerkship*

070:060 CONTINUITY OF CARE IN OUTPATIENT GENERAL PEDIATRICS

DESCRIPTION: Continuity of Care in Outpatient General Pediatrics offers M4 students the opportunity to work with an experienced general pediatrician in a longitudinal clinical experience for the academic year. Each student will be paired with a faculty pediatrician to see patients in a weekly clinic and provide clinical care to a defined patient population. The experience will emphasize growth and development, health supervision, and management of common acute and chronic clinical problems.

GOALS: The elective is designed for students who wish to expand the pediatric-specific skills and knowledge developed during 070:002 Clinical Pediatrics. Students will gain experience with the care of pediatric patients in the outpatient setting, using a student-developed individual learning plan as a guide. The elective will prepare students for future clinical interactions with patients from birth through adolescence. The experience should foster a mentoring relationship between faculty and student.

OBJECTIVES: Each student will:

1. Develop the basic skills needed to provide health supervision, including the interventions and counseling needed for promotion of health and prevention of illness and injury.
2. Gain greater familiarity with development from birth through adolescence.
3. Identify/diagnose common acute illnesses and develop appropriate management plans.
4. Provide longitudinal care for patients with chronic illness, behavioral problems, and special health care needs.
5. Communicate with patients and their families, colleagues, and the clinical team. Discuss personal goals and plans with the faculty mentor.

COURSE DIRECTORS: *Jerold C. Woodhead, MD*

MAX ENROLLMENT: *Arranged, limited by the number of faculty available*

LENGTH OF ELECTIVE: *Full academic year*

ADMINISTRATIVE CONTACT: *Cathy Chavez*

REPORT TO: *To be arranged*

SPECIAL CONDITIONS: ***Students must receive permission from Dr. Woodhead to enroll in this elective. An orientation session will be held before the start of the academic year, and students will meet midyear with the course director and faculty participants.***

OSAC GUIDELINES FOR ALL COC CLERKSHIPS:

1. *The COC is taken concurrently with other required and elective courses during the M4 year.*
2. *Students are not allowed to register for more than one COC.*
3. *Students must attend 80% of 42 schedulable weeks = 34 COC sessions.*
4. *Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.*
5. *Students must limit their time off request from 2 week clerkships to one half day per clerkship (i.e., only one COC session during a 2 week clerkship).*
6. *Students must have limited "off campus" weeks including away and global electives to meet the 34 session COC requirement.*
7. *Students are not allowed to register for a COC and be a group facilitator*
-Facilitating/teaching in Case-Based Learning in FCP I
-Case-Based Learning in FCP II
-Physical Exam Skills in FCP II
-Patient-Centered Learning in FCP III
-Case-Based Learning for admission interviews

070:333 PEDIATRIC CRITICAL CARE OFF-CAMPUS

OBJECTIVES: Critical Care rotation individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*
EVALUATIONS: *Students are responsible for picking up evaluations from Cathy Chavez before departure. Students are responsible for insuring the return of completed evaluations to Cathy Chavez.*

070:998 PEDIATRICS ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Gen Peds Conf Room 2602 JCP, 7:30 am*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*
EVALUATIONS: *Students are responsible for initiating on-line evaluations.*

070:999 PEDIATRICS OFF-CAMPUS

OBJECTIVES: Individually arranged by student with the approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cathy Chavez*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*
EVALUATIONS: *Students are responsible for picking up evaluations from Cathy Chavez before departure. Students are responsible for insuring the return of completed evaluations to Cathy Chavez.*

DEPARTMENT OF PSYCHIATRY

COURSE DIRECTOR: Dr. Jodi Tate
Dr. Jess Fiedorowicz

CONTACT PERSON: Teresa Young
2880 JPP
353-6963

073:033 ADULT INPATIENT PSYCHIATRY

OBJECTIVES: This advanced elective offers the opportunity to study clinical psychiatry in greater depth. Elective clerks carry a smaller case load than residents, but are otherwise expected to act as junior residents with staff supervision. Clerks also participate in a program of directed readings, didactic seminars, and clinical conferences. Feedback on directly observed clinical interviews will be provided. Options include general adult psychiatry, geriatrics, eating disorders, mood, or psychotic disorders/neuropsychiatry. Student learning will emphasize assessment to develop a foundation of skills in clinical interviewing, mental status examination, differential diagnosis, and formulation. Psychotherapeutic and pharmacological management approaches will be emphasized. **May be repeated at alternate clinical sites.**

FACULTY: *Drs. Fiedorowicz and Tate*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Students must contact Dr. Fiedorowicz prior to initiation of the elective to arrange the site of practice.*

073:035 CHILD PSYCHIATRY

OBJECTIVES: This elective offers the student the opportunity to study in depth the behavioral manifestations of psychiatric disorders in children and adolescents. The elective will include both inpatient and outpatient experiences so that students have an opportunity to observe how psychiatrists diagnose and treat acute and chronic disorders in children. Outpatient clinic experiences will include diagnostic evaluations, medication follow-ups, and full team evaluations. Students will also have the opportunity to observe neuropsychological and psychological evaluations. Students also participate in a program of clinical readings, didactic seminars, and clinical conferences. This elective is well-suited for the student who is planning a career in pediatrics. **May be repeated.**

FACULTY: *Dr. Espe-Pfeifer*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Dr. Espe-Pfeifer to discuss elective and develop a plan for the order of the clinical experience.*

073:045 ADULT OUTPATIENT PSYCHIATRY

OBJECTIVES: This elective offers students the opportunity to study outpatient psychiatry and emergency management of psychiatric patients. Students will be expected to participate with more independence in the diagnostic assessment of new patients in the clinic, as well as to assist senior residents in the evaluation and treatment of patients with psychiatric emergencies. An emphasis will be placed on the further development of psychiatric interviewing skills and diagnostic assessment skills. Students will be exposed to both psychotherapeutic and psychopharmacologic treatment modalities. Observation of group psychotherapy and participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective. The elective will be tailored as possible to the student's interests, including exposure to the University Adult Psychiatry Outpatient Clinic, the VA Adult Psychiatry Outpatient Clinic, geriatric evaluations, addictions treatment, and community psychiatry sites.

FACULTY: *Dr. Tate*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Drs. Tate and Fiedorowicz to discuss and develop elective.*
PREREQUISITES: *Completion of the M3 year and 073:005 Clinical Psychiatry.*

073:047 WOMEN'S WELLNESS AND COUNSELING SERVICE

OBJECTIVES: Fourth year medical students can pursue a Women's Mental Health senior elective in the Women's Wellness and Counseling Service (WWC) at the University of Iowa Hospitals and Clinics and at the VA Women's Clinic. During this four week rotation, students will have the opportunity for greater autonomy in evaluation and treatment of women with mental illness with a special emphasis on pregnant and postpartum women. They will be expected to participate in case conferences, attend regularly scheduled educational activities in women's mental health, prepare a presentation for the WWC service, and develop a working knowledge of fundamental literature in this field. The majority of clinical and educational activities will be devoted to women's mental health. Depending on in the interests of the student, other psychiatric learning activities will be arranged during this rotation.

FACULTY: *Dr. Robin Kopelman*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Arranged*

073:049 EATING DISORDERS

OBJECTIVES The elective in eating disorders will provide an experience for the student that maximizes autonomy and responsibility. The inpatient rotation will emphasize the co-occurring psychiatric and co-morbid medical conditions associated with the eating disorders. Students will be expected to assess and manage their patients at an advanced level. Students will provide direct patient care and engage in clinical decision making for complex patients with substantial co-morbidity. Call is required. The didactic curriculum focuses on critical appraisal of the relevant medical literature.

FACULTY: *Dr. Laurie McCormick*
MAX ENROLLMENT: *1*
OFFERED: *All Periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Dr. Laurie McCormick (to arrange)*

073:050 INTELLECTUAL DISABILITIES

OBJECTIVES: This 2 week elective in Intellectual Disabilities (ID) will provide an in depth clinical experience in the interdisciplinary approach to assessment and management of individuals with an Intellectual Disability. Supervising faculty will have expertise in this sub-specialty of psychiatry (Jodi Tate, MD), developmental and behavioral pediatrics (Dianne McBrien, MD) and clinical psychology (Todd Kopelman). Clinical experience will primary involve outpatient settings. During this elective students will participate in the psychiatric evaluation of adults with both a mental illness and an ID (Tate), medical evaluation of children and/or adults with ID (McBrien) and biobehavioral evaluation of children and/or adults with ID (Kopelman). Student will also tour local agencies that provide services to individuals with Intellectual Disabilities (Tate).

FACULTY: *Drs. Tate, McBrien, Kopelman*
MAX ENROLLMENT: *1*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *2 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Dr. Tate*
PREREQUISITES: *073:005 Clinical Psychiatry and 070:002 Clinical Pediatrics*

073:051 SUBSTANCE ABUSE

OBJECTIVES: This elective offers students an in depth clinical experience in the assessment and management of individuals with alcohol and drug abuse. Supervising faculty have expertise in this sub-specialty of psychiatry and clinical experience can be done in a variety of substance abuse settings, from outpatient to residential. The elective will focus on the assessment and management of substance abuse disorders. A presentation of scholarly work (presentation or paper) is expected. Call is not required.

FACULTY: *Drs. Anthony Miller and Jill Liesveld*
MAX ENROLLMENT: *1*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *2 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Dr. Anthony Miller or Dr. Jess Fiedorowicz to discuss and develop elective.*
PREREQUISITES: *073:005 Clinical Psychiatry*

073:052 EMERGENCY PSYCHIATRY

OBJECTIVES: The elective in emergency psychiatry will provide an in depth clinical experience in the assessment and management of acute psychiatric illness. Supervising faculty will have expertise in care within this setting and clinical experiences will be centered in the emergency department at the University of Iowa Hospitals and Clinics.

FACULTY: *Drs. Himadi and Fiedorowicz*
MAX ENROLLMENT: *1*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Students should contact Dr. Elaine Himadi (elaine-himadi@uiowa.edu) prior to enrollment to ensure availability of staff.*
PREREQUISITES: *073:005 Clinical Psychiatry*

073:053 ADVANCED CLINICAL PSYCHIATRY, DES MOINES

OBJECTIVES: Students can choose to work in the adult inpatient psychiatry setting, the hospital psychiatry consultative liaison setting, and/or the child-adolescent psychiatry setting during the four-week rotation.

Students will choose to work in one of the above areas for the entire four-week rotation, or they may choose to work in two of the areas, each for two weeks. Students will be given more responsibility to see, evaluate, and direct the care of assigned patients.

Students can also choose to participate in the psychiatric emergency/crisis care team, substance abuse clinics and/or ECT treatment sessions during the rotation. If interested, students can also spend time with office staff learning about the business aspects of private psychiatry practice.

FACULTY: *Dr. Adnan Iqbal will direct the adult inpatient experience. Dr. Ara Robinson will direct the adult psychiatry consult experience. Dr. Kent Kunze will direct the child-adolescent psychiatry experience.*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Wendi Kruger, 1415 Woodland Ave, Suite 100, Des Moines IA 50309, 515-241-4455*

REPORT TO: *Orientation will be the first day of the clerkship in the Des Moines Area Medical Education Consortium office on the campus of Iowa Methodist Medical Center at 1415 Woodland, Suite 130. Consortium staff and Drs. Iqbal, Robinson, and/or Kunze (clerkship directors) will jointly conduct the orientation session.*

SPECIAL CONDITIONS: *Students are provided free housing in a private furnished apartment in the InnTowner Apartments located on the campus of Iowa Methodist Medical Center at 1300 Woodland Avenue. The InnTowner Apartment office phone number is 515-241-3219. A subsidy for meals purchased in the Iowa Methodist Medical Center cafeteria will also be provided.*

073:060 PSYCHIATRY CONTINUITY OF CARE CLINIC

OBJECTIVES The psychiatry continuity of care (COC) clinic will provide an educational experience for the student that maximizes autonomy and responsibility in an outpatient continuous care setting. Students will have the opportunity to evaluate patients independently and present directly to attending staff. The clinical experience will reflect that of a COC clinic in accordance with the relevant College of Medicine policies. The rotation is 100% outpatient. Sites include the Integrated Multidisciplinary Program in Assertive Community Treatment and the Veterans Affairs Adult Psychiatry Clinic.

FACULTY: Drs. Tate and Fiedorowicz

MAX ENROLLMENT: 2-3 students per year (depending on available faculty)

OFFERED: The COC is taken concurrently with other required and elective courses during the M4 year.

LENGTH OF ELECTIVE: ½ day per week, full academic year

ADMINISTRATIVE CONTACT: *Teresa Young*

REPORT TO: Arranged

SPECIAL CONDITIONS: Students must contact Dr. Fiedorowicz or Dr. Tate prior to initiation of the elective to arrange the site of practice.

OSAC GUIDELINES FOR ALL
COC CLERKSHIPS:

1. *The COC is taken concurrently with other required and elective courses during the M4 year.*
2. *Students are not allowed to register for more than one COC.*
3. *Students must attend 80% of 42 schedulable weeks = 34 COC sessions.*
4. *Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.*
5. *Students must limit their time off request from 2 week clerkships to one half day per clerkship (i.e., only one COC session during a 2 week clerkship).*
6. *Students must have limited “off campus” weeks including away and global electives to meet the 34 session COC requirement.*
7. *Students are not allowed to register for a COC and be a group facilitator*
 - Facilitating/teaching in Case-Based Learning in FCP I*
 - Cased-Based Learning in FCP II*
 - Physical Exam Skills in FCP II*
 - Patient-Centered Learning in FCP III*
 - Case-Based Learning for admission interviews*

073:105 RESEARCH: PSYCHIATRY

OBJECTIVES: Senior Medical Student may obtain experience and training in the practical application of scientific methodology by affiliating themselves with an on-going research project in the Department of Psychiatry or at affiliated and cooperating Research Centers. The available research projects will vary from time to time: consult with instructor. Students are expected to have a designed course of study with faculty approval prior to the initiation of the elective. Participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective.

Students with previous research experience may work on original psychiatric research if their proposals are found acceptable by an appropriate staff member who will supervise the project.

FACULTY: *Dr. Fiedorowicz*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Dr. Fiedorowicz to discuss options and develop a plan*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

073:835 SUB-INTERNSHIP IN MEDICAL PSYCHIATRY

OBJECTIVE: The Medical Psychiatry Clerkship is designed to provide hands-on experience in the evaluation and treatment of patients with combined medical and psychiatric disease. The fourth year student under the supervision of residents in both medicine and psychiatry will learn to make appropriate medical and psychiatric diagnoses while considering the relationship of these conditions. The student will act at subintern level selecting appropriate consultations, diagnostic tests, and treatments. The student will be expected to develop familiarity with the etiology and pathophysiology of the conditions being treated, review potential complications, and develop skills in direct interactions with the patients to facilitate team-teaching and patient care. The student is required to prepare and present an article at the Medicine-Psychiatry noon conference. Contact Dr. Vicki Kijewski for details about the noon conference schedule at the initial of the elective. Participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective.

FACULTY: *Dr. Vicki Kijewski*
MAX ENROLLMENT: 2
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO:

073:836 SUB-INTERNSHIP IN MOOD/PSYCHOTIC DISORDERS

OBJECTIVE: The sub-internship in adult psychiatry will provide an experience for the student that maximizes autonomy and responsibility. The inpatient rotation will focus on one sub-specialty area (psychotic disorders or mood disorders) and emphasize the substantial medical co-morbidity. The sub-Intern will be expected to assess and address the medical and psychiatric needs of their assigned patients in a collaborative and integrative fashion. Students will be expected to assess and manage their patients independently at the level of a psychiatry intern, reporting directly to the attending. Call is required. The didactic curriculum focuses on critical appraisal of the medical literature.

FACULTY: *Dr. Jess Fiedorowicz*
MAX ENROLLMENT: 2
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Dr. Jess Fiedorowicz (to arrange)*

073:998 PSYCHIATRY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department. Please contact Dr. Tate to discuss alternatives for this individually tailored elective. Students must have identified specific goals of this clinical elective prior to registration.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

073:999 PSYCHIATRY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Teresa Young*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF RADIOLOGY

COURSE DIRECTOR: Dr. Eve Clark
Dr. Maheen Rajput

CONTACT PERSON: Nichole Jenkins
3850 JPP
353-8690

074:201 ADVANCED CLINICAL RADIOLOGY

OBJECTIVES: This elective is intended for students who want to improve their radiologic abilities whether or not they plan to pursue a career in radiology. The course consists of 4 one-week blocks in the radiologic subspecialties of the student's choice. This is a hands-on rotation in which the student will become a full member of the clinical team participating in all aspects of patient care including radiologic procedures. In addition, there is a program of lectures, case presentations, and guided self-instruction to update the student on the latest regarding integrating diagnostic and interventional imaging into patient management.

Upon successful completion of the rotation, the student will be able to: 1) develop differential diagnoses of common pathology based on radiographic imaging, and 2) understand the appropriate integration of radiologic imaging into patient management.

FACULTY: *Drs. Eve Clark and Maheen Rajput*
MAX ENROLLMENT: 8
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Nichole Jenkins*
REPORT TO: *3567 JPP at 9:15 am*
SPECIAL CONDITIONS: *Must be dropped 4 weeks prior to the beginning of the section.*

074:203 VASCULAR AND INTERVENTIONAL RADIOLOGY

OBJECTIVES: The purpose of this elective is to expose the student to the broad range of diagnostic and therapeutic procedures performed by Interventional Radiology. Interventional radiology is a subspecialty of Radiology, which is responsible for the performance of a wide array of percutaneous, vascular and non-vascular procedures. These include angiography, angioplasty, vascular reconstructions, vascular embolization, percutaneous nephrostomies, biliary drainage, and placement of custom devices in the vascular tree and elsewhere.

Students in this elective will join the clinical interventional service, staff, fellows and residents. You will be expected to participate in the diagnostic workup and management of interventional patients as well as in the performance of selected interventional procedures. You will be involved in the daily readouts and teaching on the interventional clinical service and participate in interventional and interdisciplinary interventional conference, and familiarize yourself with research opportunities.

FACULTY: *Shiliang Sun, M.D.*
MAX ENROLLMENT: 2
OFFERED: *All periods pending approval of Dr. Sun*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Nichole Jenkins*
REPORT TO: *Dr. Shiliang Sun*

074:901 COMMUNITY RADIOLOGY

OBJECTIVES: This course offers the student direct experience in general radiology and its application to clinical medicine. The student will work with practicing radiologists to gain experience in normal radiographic anatomy and the radiologic approach to diagnosis of disease and to recognize the role of the radiologist as a consultant member of the health-care team. A participating program is in Fairfield (housing provided).

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Nichole Jenkins*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Student must call site to sign up for this clerkship before adding it to your schedule.*

074:998 RADIOLOGY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Nichole Jenkins*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

074:999 RADIOLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Nichole Jenkins*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF SURGERY

COURSE DIRECTOR: Dr. Aimen Shaaban

CONTACT PERSON: Cate Spencer-Motyko
1527 JCP
356-4499

075:216 SUB-INTERNSHIP IN SURGERY

OBJECTIVES: **Sub-interns will** improve students' clinical skills by assuming an intern's level of responsibility for the assessment and management of a limited number of patients, under the direct supervision of a senior surgery resident. The sub-interns will increase their proficiency with perioperative patient assessment and management, including selecting and interpreting appropriate laboratory and radiologic studies. Sub-interns may also participate in procedures, but at least 80% of their time should be spent managing in-patients.

Sub-interns will accomplish this by working as a member of a surgical resident team, including approximately weekly night/weekend call at the same time as a faculty member on the team so that the sub-interns may participate in the entire spectrum of patient management from the stage of initial surgical consultation. Sub-interns will be asked to submit goals and strategies for achieving their goals in advance. The chief residents will be asked to review and revise these goals as appropriate. At the end of the month, sub-interns will be asked to review how these goals have been met with the course director, residency program director, or chair of surgery.

FACULTY: *Department of Surgery Faculty*
MAX ENROLLMENT: *5*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
REPORT TO: *Contact Cate Spencer-Motyko for information for the first day of clerkship*
SPECIAL CONDITIONS: *Only one student per team. Contact Cate Spencer-Motyko to indicate your preference one month prior to beginning of clerkship.*
Teams: Pediatric Surgery, Vascular, Trauma Team 1, Burns, Transplant, and VA

075:229 RESEARCH IN SURGERY

OBJECTIVES: **The student will** research, plan, and organize a project with a member of the surgical faculty. This may or may not be a part of ongoing projects. The student is expected to author a publishable manuscript at the end of the project.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
REPORT TO: *Instructor*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

075:235 GENERAL SURGERY, IOWA METHODIST, DES MOINES

OBJECTIVES: Operating under the direction of a resident in surgery, the senior student will admit, work-up, evaluate and be involved in the operative and post-op care of patients admitted to his/her assigned surgical service. Each senior student will be assigned a General Surgery Service consisting of three to four general surgeons and one or two residents during his/her rotation. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and a faculty member.

The Senior Student will learn how to care for general surgery patients in a private hospital setting, with a constant flow of excellent surgical material for study. All of this will be gained under the guidance of experienced surgeons working closely with dynamic residents.

The Senior Student will take an active part in all of the scheduled surgery conferences. The sub-intern will take call with the resident with whom he/she is working.

FACULTY: *Dr. Richard Sidwell, Dir. of Surgical Education*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
REPORT TO: *Des Moines Area Medical Education Consortium Office; 515/241-4455*
SPECIAL CONDITIONS: *Room provided; subsidized meal allowance.*

**075:236 SURGICAL TRAUMA CRITICAL CARE SERVICE
IOWA METHODIST MEDICAL CENTER, DES MOINES**

OBJECTIVES: The senior student will function as a sub-intern on a trauma service team that consists of surgical resident(s) and attending staff. Trauma service at IMMC involves the evaluation and management of critically ill patients in the ER, operating room and intensive care unit.

GENERAL GUIDELINES: There will be opportunities to intubate patients and to place arterial and central venous lines. Students will also learn principles of ventilator management and hemodynamic monitoring. Students will take call one weeknight per week and one weekend during the rotation. Students will attend all educational conferences of the surgery residency program, including the weekly trauma video conference.

FACULTY: *Dr. Sidwell and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
REPORT TO: *Des Moines Area Medical Education Consortium
Office, 515/241-4455*
SPECIAL CONDITIONS: *Room provided; subsidized meal allowance.*

**075:237 GENERAL SURGERY, DAVENPORT SURGICAL GROUP/
GENESIS MEDICAL CENTER**

OBJECTIVES: The student will increase his/her ability to provide pre-and postoperative care of general surgical patients. The student will learn how to conduct appropriate preoperative evaluation of general surgical patients and understand the accepted indications for common elective surgical procedures. The student will gain broad exposure to general surgical procedures and intraoperative techniques and develop surgical skills appropriate to the student's ability and experience.

The student will participate in the care and management of patients under the close supervision of attending surgeons. The student will pre-round on inpatients, write daily progress notes, and present the patients to the attending surgeon on rounds. In clinic, the student will evaluate and present new patients to the attending surgeon, as well as perform admission history and physicals. The student will also be given the opportunity to initially evaluate emergency room and inpatient consultations, and formulate a differential diagnosis. Together with the on-call surgeon, diagnostic tests and a definitive treatment plan will be formulated. Finally, the student will first assist in surgery and perform minor procedures.

Formal and informal teaching sessions will take place throughout the rotation. Radiographs will be reviewed with the radiologist, surgical specimens will be reviewed with the pathologist, and there are multidisciplinary conferences on subjects such as breast diseases, cancer, GI diseases and trauma. There will be a teaching emphasis on the evaluation, differential diagnosis and treatment of the acute abdomen as cases arise on consultative service. The student will be expected to read about gastrointestinal diseases, hernias, vascular access and breast disease in an acceptable surgical text and become familiar with the pathophysiology and surgical approaches for each.

FACULTY: *Dr. Joseph Lohmuller and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
REPORT TO: *Call Trish Halligan 563/421-4455 prior to
beginning of clerkship.*
SPECIAL CONDITIONS: *Room provided, meals.*

075:998 SURGERY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

075:999 SURGERY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Cate Spencer-Motyko*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF ORTHOPAEDICS AND REHABILITATION

COURSE DIRECTOR: Dr. Charles Clark
CO-DIRECTOR: Dr. Jose Morcuende

CONTACT PERSON: Angie Poulsen
01085 JPP
356-7160

076:201 ADVANCED CLINICAL ORTHOPAEDICS

OBJECTIVES: **The student will:** 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the service of the student's choice including adult orthopaedics (VA), children's orthopaedics, adult reconstruction, low back, sports medicine, or tumor/foot teams; 2) duties will be analogous to those of an intern with responsibility for patient care in clinic, in the hospital, and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills including plaster work in the care of patients; 5) review and discussion of teaching sets of x-ray and microscopic slides in the musculoskeletal pathology lab.

FACULTY: *Orthopaedic Staff*
MAX ENROLLMENT: 5
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Angie Poulsen*
REPORT TO: *Dr. Clark, 01075 JPP*
SPECIAL CONDITIONS: ***Consists of seven individual "teams":***
Silver = Path/Tumor and Foot/Ankle
Black = Sports Medicine and Shoulder
Blue = Adult Reconstructive
(total hip and knee replacements)
Green = Pediatrics
Orange = Lumbar, Thoracic and Cervical Spine
Gray = V.A., General Orthopaedics
Yellow = Hand

PLEASE CONTACT ANGIE POULSEN TO INDICATE YOUR TEAM PREFERENCE WITHIN ONE WEEK AFTER THE COMPUTER ASSIGNMENTS ARE MADE. FIRST COME, FIRST SERVED. YOU ARE NOT ABLE TO PUT TEAM PREFERENCES INTO THE COMPUTER. THOSE STUDENTS WHO DO NOT INDICATE A PREFERENCE WILL BE ASSIGNED A TEAM.

076:202 MUSCULOSKELETAL TRAUMA

OBJECTIVES: **The student will:** 1) increase his ability to diagnose and treat by non-surgical and surgical methods, injuries of the musculoskeletal system; 2) increase his skill in the application and removal of plaster dressings; 3) increase knowledge of the complications of injuries of the musculoskeletal system.

This will be achieved by: 1) participation on the trauma team with duties analogous to those of an intern with responsibility for patient care in clinic, in the hospital and operating room; 2) attendance at all teaching conferences and seminars.

FACULTY: *Drs. McKinley, Marsh, and Karam*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Angie Poulsen*
REPORT TO: *Dr. Clark, 01075 JPP*

076:203 SUB-INTERNSHIP IN ORTHOPAEDICS

OBJECTIVES: **The student will** increase his/her clinical skills by assuming an intern's level of responsibility for management of a limited number of orthopaedic patients. The student will increase their proficiency in perioperative patient assessment and management, including assisting in procedures and use of laboratory diagnosis and radiologic studies pertinent to one faculty member's clinical practice. 80% of their time must be spent in assessing and managing patients, no more than 20% in the operating room.

The student will accomplish this by working on an orthopaedic surgery service as a sub-intern including their night/weekend call, clinics, procedures, and postprocedure patient management. Sub-interns may work on the Trauma service (Red Team) or the Adult Reconstruction (Blue Team) service. The student will have similar responsibilities to an R1 for their limited panel of patients including (1) the daily assessments and documentation associated with inpatient care, (2) participation in procedures, (3) post-procedure documentation, and (4) writing orders, albeit under close supervision by the team's upper level resident.

To assure adequate clinical experience, no more than one sub-intern or other senior student may be on the same team simultaneously.

At least one week prior to the clerkship, students must e-mail Dr. Clark/Angie Poulsen two or more proposed goals for their sub-internship month, which may need to be negotiated if not clearly feasible. At the end of the clerkship, students will meet with Dr. Clark addressing how their goals were or were not met.

All sub-interns will be scheduled to meet during or after their month with the Department Head – Dr. Buckwalter, the Residency Program Director – Dr. Marsh, or Dr. Clark. Angie Poulsen will facilitate the student's meetings.

The student will attend all departmental didactic lectures and conferences. In addition the student will take night call with the assigned team at least one night per week.

FACULTY: *Department of Orthopaedic Surgery Faculty*
MAX ENROLLMENT: *2*
OFFERED: *All periods (no visiting students)*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Angie Poulsen*
REPORT TO: *Angie Poulsen for information for the first day of clerkship.*

SPECIAL CONDITIONS: *Only one student per team. Contact Angie Poulsen to indicate your preference one month prior to beginning of clerkship.*

076:204 INTRODUCTION TO PHYSICAL MEDICINE & REHABILITATION

OBJECTIVES: Students will participate in the management of a wide range of common acute and chronic neuro-musculoskeletal pain conditions including shoulder, back, or knee pain to more devastating neuromuscular injuries including spinal cord injuries, brain injury, strokes and amputations.
Students will 1) learn the principles of nonsurgical treatments including understanding the appropriate prescription of medications, physical therapy treatment plans, bracing, and injections; 2) learn the indications for referral for surgical consultation in the discovery of common imaging abnormalities in the context of a patient's pain; and 3) present a short oral presentation (<10 minutes) on the principles of identifying, treating, or management of a neuro-musculoskeletal condition.

FACULTY: *Drs. Chen, Bingham, Hall, Segal*
MAX ENROLLMENT: *3*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 weeks*
ADMINISTRATIVE CONTACT: *Angela Poulsen*
REPORT TO: *Department of Orthopaedic Surgery, JPP 0728E*
PREREQUISITES: *Completion of the M2 year*

076:205 PHYSICAL MEDICINE AND REHABILITATION

OBJECTIVES: **The student will:** 1) increase their ability to diagnose, treat and rehabilitate patients with non-surgical injuries of the neuro-musculoskeletal systems; 2) increase knowledge of the complications of injuries to the neuro-musculoskeletal system.

This will be achieved by: 1) participation in the physical medicine and rehabilitation spine outpatient clinics and inpatient trauma rehabilitation consultations with duties analogous to those of an intern with responsibility for patient care in clinic, and in the hospital ; 2) attendance at all teaching conferences and seminars.

FACULTY: *Dr. Chen, Segal, and Bingham*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Angie Poulsen*
REPORT TO: *Dr. Chen, 0728E JPP*

076:998 ORTHOPAEDICS ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Angie Poulsen*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation. It is most important that the Orthopaedic Surgery Education Office (Angie Poulsen) knows the location of the elective in order to obtain credit for the elective.*

076:999 ORTHOPAEDICS OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of department.

General Orthopaedic rotation may be arranged through other University Centers or private Orthopaedists with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Angie Poulsen*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation. It is most important that the Orthopaedic Surgery Education Office (Angie Poulsen) knows the location of the elective in order to obtain credit for the elective.*
EVALUATIONS: *Students are responsible for evaluations. You must pick them up from Angie Poulsen before the start of the elective.*

DEPARTMENT OF INTERNAL MEDICINE

COURSE DIRECTOR: Dr. Scott Vogelgesang, Vice Chair for Education
Dr. Ellen Gordon, Director, Sub-Internship Program

CONTACT PERSON: Dana Hartman
E330 GH
356-2333

078:202 SUB-INTERNSHIP IN INTERNAL MEDICINE

OVERALL GOAL Students will gain skills in Internal Medicine and patient care that will be useful regardless of ultimate career path.

OBJECTIVES At the end of the rotation, students will be able to:

- 1) present a succinct, focused oral history and write a more detailed, organized history and physical, which justifies a therapeutic or diagnostic plan.
- 2) complete a detailed organ-specific exam based on patient needs.
- 3) organize problems and prioritize possible diagnoses, laying the groundwork for a therapeutic/management plan based on cost/benefit.
- 4) interpret basic tests/labs
- 5) gain skill in basic procedures and exposure to and skill in advance procedures.
- 6) gain skills in data synthesis and patient management.
- 7) practice critical appraisal of the literature as it applies to the patient and quickly formulate clinical questions, effectively use literature resources and critically appraise articles.
- 8) practice development of meaningful relationships with patients, patients' families and colleagues and gain experience in various humanistic aspects of medicine.

This will be achieved through:

- 1) Acting as an R1 and assuming responsibility for evaluating, treating and following patients admitted to general medical services.
- 2) Presenting patients at morning report, on daily rounds, and at conference.
- 3) Attending twice weekly discussion sessions with designated "teaching resident" and/or staff physician.
- 4) Participating in evidenced-based medicine lecture series given by Dr. Gordon and practicing a provided approach to critical appraisal of therapeutic and diagnostic articles.
- 5) Participating in ethics conference with Dr. Kaldjian and practicing an approach to ethical problems in patient care.
- 6) Participating in advanced cardiac physical diagnosis sessions with Dr. Chatterjee.

FACULTY: *Internal Medicine Faculty*

MAX ENROLLMENT: 8

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Betty Elder, 6-3689*

REPORT TO: *Dr. Ellen Gordon, on first day of rotation
(location and time to be announced).*

SPECIAL CONDITIONS: *Student must be without other obligations the entire four weeks with the exception of the Internal Medicine COC rotation. Students are expected to attend thru Sunday of the last weekend of the clerkship. Cannot drop course without notifying Dr. Gordon at least one month in advance.*

078:204 COMMUNITY-BASED GENERAL INTERNAL MEDICINE

Objectives: To expose medical students to primary care internal medicine in a community setting. Students will participate in the evaluation and care of patients in the ambulatory clinic and in the hospital. The student will learn how to be effective, efficient, and economical in evaluating a wide variety of common medical outpatient problems. The student will learn when consultation is appropriate and when to use ancillary medical personnel, such as visiting nurses, hospice, physical therapy, social services, etc. By the end of the rotation, the student will have a greater appreciation for the role of a general internist in the delivery of primary care in a community-based practice

Participating Internists: John C. Lorentson, MD, Associated Internists, PC, Ft. Dodge
Malcolm D. Findlater, MD, Marengo Medical Center, Marengo
Polly Jo Hineman, DO, Marshalltown Medical Clinic, Marshalltown
John P. Bennett, MD, Family Medicine of Mt. Pleasant, Mt. Pleasant
Robert F. Weis, MD, Muscatine Health Center, Muscatine
David W. Lucke, MD, Internal Medicine Associates, Sioux City
David Rathe, DO (Med/Peds), Rahlf Memorial Clinic, Waverly
Anil Sahai, MD, Webster City Medical Center, Webster City

FACULTY: *Arranged*
MAX ENROLLMENT: 8
OFFERED: *To be arranged 6-8 weeks in advance*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Dana Hartman*
SPECIAL CONDITIONS: *Room and board cannot be provided by the Department. Once arrangements are finalized, the rotation **cannot** be dropped. Consent of Dr. Scott Vogelgesang required.*

078:205 CONTINUITY OF CARE IN OUTPATIENT INTERNAL MEDICINE

DESCRIPTION: Continuity of Care in Outpatient Internal Medicine is designed to provide the fourth-year medical student with a longitudinal continuity of care experience in the outpatient setting. Emphasis is placed on the broad clinical spectrum of General Internal Medicine practice. This will include effective approaches to preventing disease as well as identifying and managing acute and chronic illnesses. Throughout the year the student will have the opportunity to work closely with an identified faculty mentor for one-half day each week while being actively involved in patient care. Additional exposure to topics central to outpatient internal medicine will be provided through didactic conferences and other learning venues. Opportunities to refine evidence-based medicine skills and reflect on the practice of medicine more broadly are also built into this elective.

GOALS: Prepare the fourth year medical student for the practice of Internal Medicine through exposure to a variety of patients, patient problems and physician skills representative of Internal Medicine. A student developed learning portfolio will be used to demonstrate progress in these areas.

OBJECTIVES: The student enrolled in this elective will:

1. learn the fundamental principles of practicing General Internal Medicine in the ambulatory setting.
2. learn to recognize manifestations of disease and manage the course of common illnesses.
3. develop skills that address care of the healthy patient including preventive medicine; care of the patient with acute illness; and longitudinal care of the patient with chronic illness as well as care through the course of the complete illness.
4. become familiar with the thought process of an internist with an emphasis on diagnostic decision-making; evidence-based medicine; cost effective medicine; and self-directed learning.
5. begin to develop skills of an internist such as communication with patients; communication with colleagues; ability to work in a team; comprehensive approach to care; and skills useful in practice.
6. establish a mentoring relationship with the assigned physician preceptor.

COURSE DIRECTOR: *Shawna Westermann, M.D.*

MAX ENROLLMENT: *Arranged, limited by number of faculty available*

LENGTH OF ELECTIVE: *Full Academic Year*

ADMINISTRATIVE CONTACT: *Dana Hartman*

REPORT TO: *To be announced*

SPECIAL CONDITIONS: ***Student must receive permission from Dr. Westermann to register for this course. An orientation session will be held during the first week of the elective. In addition students enrolled will be expected to attend quarterly meetings with the course director and faculty participants.***

OSAC GUIDELINES FOR ALL COC CLERKSHIPS: *1. The COC is taken concurrently with other required and elective courses during the M4 year.*

2. Students are not allowed to register for more than one COC.

3. Students must attend 80% of 42 schedulable weeks = 34 COC sessions.

4. Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.

5. Students must limit their time off request from 2 week clerkships to one half day per clerkship (i.e., only one COC session during a 2 week clerkship).

6. Students must have limited "off campus" weeks including away and global electives to meet the 34 session COC requirement.

7. Students are not be allowed to register for a COC and be a group facilitator

-Facilitating/teaching in Case-Based Learning in FCP I

-Cased-Based Learning in FCP II

-Physical Exam Skills in FCP II

-Patient-Centered Learning in FCP III

-Case-Based Learning for admission interviews

OBJECTIVES: Using current problems in infectious diseases as points of focus, we will explore questions that illustrate the essential integration of basic and clinical science in the practice of medicine. Topics will be introduced in Infectious Diseases Grand Rounds at the beginning of each month through presentations and discussion of a case history and an aspect of the underlying biological questions that the clinical case raises. Subsequent meetings will be held the following week to further expand discussion and pursuit of questions raised during the Grand Rounds presentation and fueled by focused reading of the pertinent scientific literature. We anticipate that teaching will be provided at three complementary levels, including the spontaneous discussion arising during the monthly formal presentation, the points highlighted in the formal Grand Rounds, and the discourse among students and faculty in the follow-up session. By the end of the course, students will understand the necessity of a synthesis of basic and clinical principles in the practice of modern medicine. There is no clinical component to this course; students will not see patients.

COURSE DIRECTORS: *William M. Nauseef and Jerrold P. Weiss*

FACULTY: *Lee Ann Allen, Ph.D., Peter Densen, M.D., Daniel Diekema, M.D., Theresa Gioannini, Ph.D., William Nauseef, M.D., Jack Stapleton, M.D., Mary Wilson, M.D., Jerrold Weiss, Ph.D., Patricia Winokur, M.D., Phil Polgreen, M.D., Fayyaz Sutterwala, M.D., Ph.D, Rachel Miller, M.D., Jason Barker, M.D., Jessica Moreland, M.D., Paige Volk, M.D., Loreen Herwaldt, M.D., Christine Ziebold, M.D., Judy Streit, M.D., Birgir Johannsson, M.D., and Michael Ohl, M.D.*

MAX ENROLLMENT: *Unlimited*

LENGTH OF ELECTIVE: *Full Academic Year*

ADMINISTRATIVE CONTACT: *Dana Hartman*

REPORT TO: *t/b/a*

SPECIAL CONDITIONS: *This course can be taken concurrently with other clerkships in the medical school curriculum. It is expected that students will attend 80% of the scheduled sessions, recognizing that conflicting commitments may compromise achieving perfect attendance.*

- OSAC GUIDELINES FOR ALL YEAR-LONG COURSES:**
- 1. Topics is taken concurrently with other required and elective courses during the M4 year.*
 - 2. Students are not allowed to register for Topics and COC.*
 - 3. Students must attend 80% of 42 schedulable weeks = 34 Topics sessions.*
 - 4. Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.*
 - 5. Students must limit their time off request from 2 week clerkships to one session per clerkship (i.e., only one Topics session during a 2 week clerkship).*
 - 6. Students must have limited "off campus" weeks including away and global electives to meet the 34 session requirement.*
 - 7. Students are not be allowed to register for a Topics and be a group facilitator*
 - Facilitating/teaching in Case-Based Learning in FCP I*
 - Cased-Based Learning in FCP II*
 - Physical Exam Skills in FCP II*
 - Patient-Centered Learning in FCP III*
 - Case-Based Learning for admission interviews*

078:218 MEDICAL ICU, IOWA METHODIST, DES MOINES

OBJECTIVES: Student will function as a sub-intern in the IMMC ICU. Student will be responsible for the evaluation and care of carefully selected critically ill patients. The student will be under the supervision of a senior level internal medicine resident and a critical care/pulmonary staff physician. The student will have an opportunity to gain competence, not only in the evaluation and management of critically ill patients, but also in advanced procedural skills. Daily rounding and teaching will occur with the medical critical care team.

FACULTY: *Drs. Hicklin, Guest, Collins, Enrique, and Gudavalli (Div Chief)*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Dr. William Yost, Des Moines Medical Education Consortium, 515-241-4455*
SPECIAL CONDITIONS: *Preference given to students planning to pursue internal medicine residency training. Room provided; meal stipend provided.*

078:219 SUB-INTERNSHIP IN INTERNAL MEDICINE, VAMC, DES MOINES

OBJECTIVES: The student will function as a sub-intern on one of the three general medicine teams at the VA. The student will be responsible for the evaluation and care of between 3-5 inpatients. The student will have the opportunity to develop patient care skills expected of a first-year resident under the supervision of a senior level internal medicine resident and one of the general internal medicine hospitalist physicians at the VA. Daily teaching rounds will occur and the student will participate in the teaching conferences of the internal medicine residency program.

FACULTY: *Drs. Goodson, Gerleman, Rose, and Lautner*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Dr. William Yost, Des Moines Medical Education Consortium, 515-241-4455*
SPECIAL CONDITIONS: *Preference given to students planning to pursue internal medicine residency training. Room provided; meal stipend provided.*

078:220 SUB-INTERNSHIP IN INTERNAL MEDICINE, IMMC, DES MOINES

OBJECTIVES: The student will function as an intern-equivalent on the Younker 8 pulmonary teaching service. The student will be responsible for the evaluation and daily care of 3-5 inpatients. Daily rounding and teaching will occur with the first-year resident and the assigned pulmonary attending staff physician. The student will take call with the intern one weeknight each week and one of the weekends during the month. The student will participate in the daily teaching conferences of the internal medicine residency program.

FACULTY: *Drs. Hicklin, Guest, Collins, Enrique, and Gudavalli (Div Chief)*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Dr. William Yost, Des Moines Medical Education Consortium, 515-241-4455*
SPECIAL CONDITIONS: *Room provided; meal stipend provided.*

078:221 PUBLIC HEALTH MEDICINE, DES MOINES

The State of Iowa Department of Public Health offers an elective rotation for fourth-year medical students. This is an opportunity to learn the public health issues of acute disease while actively participating in ongoing projects. In addition, this rotation can provide insight into future training and/or career opportunities in public health practice.

OBJECTIVES: Learn the public health impact and response to communicable disease, poisonings and other acute events.

Participate in an outbreak investigation.

Learn the organization and function of a state health department.

Learn how public health policy is developed and implemented.

Develop a written report for publication (if possible).

Learn core functions and ten essential services of public health.

These objectives will be accomplished by participation in the investigation of an acute disease outbreak (should one occur during the rotation), by participation in one of several ongoing projects (for example, studying the impact of the RAGBRAI on health behaviors), and by participation in public health grand rounds (a weekly discussion of current activities the Center is involved in).

FACULTY: *Patricia Quinlisk, MD, MPH, State Epidemiologist
Russell Currier, DVM, MPH, Public Health
Veterinarian, Nurse Epidemiologists and other
public health staff*

MAX ENROLLMENT: *1*

OFFERED: *Most periods, see special conditions.*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Dr. Patricia Quinlisk (515) 242-5935 or via e-mail
at pquinlis@idph.state.ia.us*

REPORT TO: *Des Moines Area Medical Education Consortium
Office, 515/241-4455*

SPECIAL CONDITIONS: *Students who are interested in this course should
contact the Iowa Department of Public Health/Dr.
Quinlisk before signing up for this course to make
sure a slot is available. Hours are from 8:30-5:00
Monday-Friday plus evenings and weekends during
public health emergencies; No patient care
responsibilities. Contact Dr. Quinlisk at least one
month in advance of start of rotation to discuss
specific interests, projects, etc.*

078:225 INTERNAL MEDICINE CONSULT SERVICE, IOWA METHODIST, DES MOINES

OBJECTIVES: Learn principles of consultative medicine provided by general internists to non-internal medicine patients. Students will gain exposure to common general medicine problems including preoperative risk assessment and perioperative management of common medical problems like hypertension, coronary disease, lung disease and diabetes mellitus in the surgical patient. The students will have the opportunity to develop & demonstrate patient care skills expected of a first-year resident under the supervision of a hospitalist general medicine physician. This will include dictating initial notes, writing daily progress notes, writing initial orders and daily orders on assigned patients. Students will participate in daily teaching rounds with faculty but will have no on-call responsibilities.

FACULTY: *Drs. Schwieson, Even, Junler, Dennis,
Melanovres, and Sullivan*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Dana Hartman*

REPORT TO: *Dr. William Yost, Des Moines Medical Education
Consortium, 515-241-4455*

SPECIAL CONDITIONS: *Room provided; meal stipend provided.*

078:250 CLINICAL ALLERGY-IMMUNOLOGY

OBJECTIVES: This subspecialty elective emphasizes experience in the diagnosis and treatment of clinical problems in allergy and immunology, including experience in skin testing, administering immunotherapy, and performing and interpreting pulmonary function tests. The student will assist in the diagnosis and management of asthma, allergic rhinitis, drug allergy, food allergy, urticaria and angioedema, hereditary angioedema and immunodeficiency disease states. Out-patients will be evaluated by the student under supervision of the staff. Students will participate in allergy-immunology conferences weekly including Immunology Grand Rounds (Wed, 1:00 pm, C425-1 GH), the Fellows' Conference (Wed, 2:00 pm), and the Immunology Group Seminars (Wed, 4:00 pm, 283 EMRB).

FACULTY: *Dr. Azar and Staff*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Kellie Means, C42 GH*

REPORT TO: *Jan Buchmayer, RN*

078:290 RESEARCH IN ALLERGY-IMMUNOLOGY

- OBJECTIVES:** This course number will be used for faculty-directed investigations into one or more areas chosen from the following by the students. Consultation with the indicated instructor is required for registration.
- Ballas:** NK cells in health and disease, primary immunodeficiency diseases, tumor immunology, immune parameters of alcohol-related diseases, immuno-diagnostics, lymphoma, immunomodulators.
- Cassel:** Role of innate and adaptive immunity in mouse models of disease with emphasis on collagen-induced arthritis. CD4 T cell differentiation; murine models of disease; NLR molecules.
- Levasseur:** Stem cell biology; regulation of induced pluripotent stem (iPS) and embryonic stem (ES) cell function; differentiation of ES/iPS cells into hematopoietic progenitors; regenerative medicine; transcriptional and epigenetic gene regulation; chromatin structure and regulation; tumor biology
- Zavazava:** Stem cell biology; differentiation of embryonic stem cells, hematopoiesis; t cell biology; transplantation biology, mechanisms of graft tolerance; MHC; peptide-MHC binding; tumor immunology.

FACULTY: *Drs. Ballas, Cassel, Levasseur, and Zavazava*

MAX ENROLLMENT: *1*

OFFERED: *Arranged*

LENGTH OF ELECTIVE: *4 weeks minimum*

ADMINISTRATIVE CONTACT: *Dana Hartman*

REPORT TO: *Faculty person involved*

078:300 CLINICAL CARDIOLOGY

- OBJECTIVES:** Internal scheduling for this course will be the responsibility of the department.

Emphasis will be to acquire both breadth and depth in the diagnosis and therapeutic problems encountered in clinical cardiology.

The student will participate in the evaluation and decisions regarding patients seen at the Cardiovascular Clinic and/or Cardiovascular in-patient consult service (at the UIHC or VAH for consults). He/she will become familiar with techniques and regimens of management of ischemic heart disease, pre- and post-operative conditions, and the chronic cardiac states seen frequently in clinical cardiology, such as congestive heart failure and valvular heart disease, and management of common rhythm abnormalities. During each week of the rotation there will be an emphasis on one of these topic areas through computer assisted instruction, assigned readings, and meeting with one of our cardiology fellows.

The elective consists of either four weeks on the Clinical Service or two weeks on the Clinic Service plus two weeks on General Cardiology In-patient Consult Service. In general, no more than one student can be assigned to the Cardiology Clinic at one time. If students have preferences as to their assignment during this rotation they should contact Ms. Linda Bang, 6-2028, E-315 GH, as soon as they have been notified of their acceptance into this elective. Unless recently certified, certification as a Basic Rescuer in CPR during the course is a requirement for passing.

COURSE DIRECTOR *Dr. Donald Brown*

FACULTY: *Staff of Cardiovascular Division*

MAX ENROLLMENT: *2 (except by special arrangement)*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Linda Bang, E-315 GH, 356-2028*

REPORT TO: *Arranged*

078:325 CLINICAL CARDIOLOGY, IOWA METHODIST, DES MOINES

OBJECTIVES: Assist with the evaluation and treatment of patients admitted and seen in consultation by the Cardiology Consult Service. Students will have the opportunity to develop and demonstrate patient care skills expected of a first-year resident under the direct supervision of a Cardiology Division faculty member. Students will see patients with common cardiovascular problems including chest pain, acute coronary syndromes, congestive heart failure, valvular heart disease, syncope dysrhythmias, and perioperative cardiac risk assessment. The student will participate in daily teaching rounds with faculty but there are no on-call responsibilities.

FACULTY: *Drs. Nerheim, Haugland, Fudge and Khan (Div Chief)*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Dr. William Yost, Des Moines Area Medical Education Consortium, 515-241-4455*
SPECIAL CONDITIONS: *Room provided; meal stipend provided.*

078:333 INTERNAL MEDICINE CRITICAL CARE OFF-CAMPUS

OBJECTIVES: Critical Care rotation individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

OBJECTIVES: Students electing this course will participate in all the outpatient clinical activities of the Division of Endocrinology and Metabolism. This consists of outpatient clinics which meet on AM & PM, Monday through Friday (plus weekly VA Clinics on the first and third Tuesday PM and second and fourth Wednesday AM and 1st Friday AM of each month, which supersede UIHC clinics). The students will also participate in the Consultation Service which sees both outpatient and inpatient endocrine and diabetes consultation patients in the University and VA Hospitals complex. The service operates daily. Please contact the attending staff physician to discuss rounding schedule. For each of these activities students will be expected to do complete patient evaluations and record impressions, diagnostic program and therapeutic plans. Students may make electronic chart entries for staff review, however all final outpatient and inpatient notes are completed by either staff, fellow or resident. Students will also participate actively in the clinical conferences of the Division. These range from formal conferences presented by the Staff and Fellows to informal conferences run by the Fellows and Residents.

Conferences to be attended by the student:

- * Endocrine Faculty and Fellows Research Seminar:
every 2nd & 4th Tuesday of each month, 5:00 – 6:00 pm.
- * Endocrinology Clinical Conf: Wednesdays 12:15 – 1:00 pm.
- * Internal Medicine Grand Rounds: Thursdays, Noon,
Med Alumni Aud
- * Endocrinology Conferences: Fridays, 7:45 – 8:45 am.
Includes staff from pediatrics, medicine, surgery, nuclear
medicine, and gynecology.

FACULTY: *Staff*
MAX ENROLLMENT: *2 (combined endo and med/peds endo)*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Linda Hayes, phone 3-7842*
REPORT TO: *Medicine Specialty Clinic, 8:00 am, 1st day.*

078:440 ENDOCRINE RESEARCH

OBJECTIVES: **Students will** be required to devote a minimum of 12 weeks, preferably 6 months to a year to this program. He/she will participate in all the organized educational activities of the Division as well as any portion of the clinical activities which seem suitable.

Students will be assigned to a research laboratory of one of the senior staff and participate in an ongoing project.

FACULTY: *Drs. Joseph Dillon, William Sivitz, Mark Yorek, and Christopher Adams*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *12 weeks*
ADMINISTRATIVE CONTACT: *Dr. William Sivitz*
REPORT TO: *Instructor*

078:450 CLINICAL GASTROENTEROLOGY-HEPATOLOGY

OBJECTIVES:

1. Student should become proficient in the differential diagnosis, workup and management of common gastrointestinal problems.
2. Student should become proficient in the workup and management of common gastrointestinal urgencies.
3. Student should learn how to become an efficient and helpful consultant in gastroenterology and learn how to communicate efficiently with consulting services.
4. Student will become familiar with interpretation of biopsies taken from gastrointestinal tract and common endoscopic findings.

This will be achieved by: (1) attendance at weekly pathology seminar; (2) attendance at weekly scheduled clinical grand rounds and core conferences; and (3) workup of patients referred to either the gastroenterology inpatient consultation service or the inpatient liver consultation service.

FACULTY: *Gastroenterology-Hepatology Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *David Elliott, M.D., PhD or Claudia Bishop, Division Coordinator 4608 JCP, phone 356-2132*
REPORT TO: *Clifton Digestive Diseases Clinic*

078:490 RESEARCH IN GASTROENTEROLOGY-HEPATOLOGY

OBJECTIVES: Obtain research training focused in the field of digestive diseases.

Elliott: Immunoregulation of focal inflammatory responses such as hepatic granuloma formation surround schistosome mansoni parasite eggs.

Johlin: Utilization and development of new materials and techniques to treat advanced diseases of the pancreas and biliary tree and liver.

Rao: Colonic motor function in health and disease; biomechanical properties of the gut.

Schmidt: Hepatitis C

Brown: Liver fibrosis

Ince: Immunology of inflammatory bowel disease

FACULTY: *Gastroenterology-Hepatology Staff*

MAX ENROLLMENT: *Arranged*

OFFERED: *Arranged*

LENGTH OF ELECTIVE: *24 weeks*

ADMINISTRATIVE CONTACT: *Appropriate staff*

078:501 HEMATOLOGY ONCOLOGY

OBJECTIVES: This elective is designed to increase diagnostic skills in hematology and oncology

The student will learn: 1) the methods and value of clinical staging of common cancers including solid tumors and lymphomas; 2) the principles and practice of rational chemotherapy; 3) the therapy and outpatient management of patients with solid tumors and lymphomas; 4) the principles of palliative care; 5) about hemostatic and thrombotic disorders; 6) the study of blood smears and bone marrow preparations; and 7) the principles and practice of rational therapy for benign and malignant hematological disorders.

This will be achieved through: 1) participation in oncology and hematology inpatient and outpatient consultation and outpatient clinic activities; 2) attendance at division conferences and 3) independent study.

FACULTY: *Dr. Link and Staff*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Erin Thompson, C-32 GH, 356-2148*

078:503 PALLIATIVE CARE

GOALS: Students will become familiar with the basic concepts of the delivery of hospice and palliative care in both the inpatient and outpatient setting. In addition, students will be introduced to the multidisciplinary care for patients with life-threatening illnesses and their families and will work closely with team members of other disciplines.

OBJECTIVES At the conclusion of the rotation, students will be able to:

1. understand the principles of hospice and palliative medicine in the inpatient and home settings including eligibility for hospice care.
2. describe situations in which palliative medicine consultation is appropriate.
3. define effective strategies and techniques for communicating with patients and families especially when communicating bad news.
4. appropriately prescribe opioid and non-opioid drugs for the treatment of pain and to accurately calculate equivalent doses of different opioids.
5. describe assessment and management strategies for non-pain symptoms in patients at the end of life, particularly nausea, dyspnea, anorexia, delirium and terminal restlessness.
6. educate and prepare family and staff for death.
7. work with patients regarding goals of care.
8. explore the emotional and psychosocial aspects of the illness experience and physician grief.

Goals and objectives will be achieved by:

1. assisting with the supervised care for patients on the UIHC Palliative Care Consult Service.
2. accompanying members of the Hospice team and Hospice Medical Director to selected homes to assist with patient management.
3. participating in educational conferences/meetings including the UIHC Palliative Care Conference as well as the Iowa City Hospice Conference.
4. reading about patients encountered while on the rotation.

COURSE DIRECTOR: *Palliative Physician Staff: Ann Broderick, MD; Timothy A. Thomsen, MD; and Michelle Weckmann, MD*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Angie Gingerich, phone 4-8690*

REPORT TO: *Angie Gingerich, phone 4-8690*

SPECIAL CONDITIONS: *Student will spend one weekend day (8:00 am-5:00 pm) with the Hospice on-call nurse in exchange for one weekday off. Deadline for confirmed spot May 1, after that time subject to availability.*

078:504 MULTIDISCIPLINARY CANCER CARE

OBJECTIVES: The Multidisciplinary Cancer Care rotation is a 2-week elective designed to acquaint the student to basic concepts of cancer care and the role a multidisciplinary team plays in the care of cancer patients. In addition, it will support the development of attitudes, knowledge and skills that will be useful to any student entering any specialty that encounters patients with cancer. During this elective the student will have the opportunity to tailor their experience based on career goals by working with faculty with specific clinical expertise (such as particular disease sites or patient populations).

Objectives: The student will

- gain an appreciation for a multidisciplinary approach to cancer treatment by recognizing the role of each team member in the care of the patient.
- learn about the methods and value of clinical staging of common cancers.
- improve physical exam skills used extensively in the care of cancer patients (ie. lymph node, head and neck and pelvic exam).
- learn about general principles of oncology including cancer treatment plans and supportive medical care of the cancer patient.
- learn about specialized procedures of radiation therapy for cancer involving general simulation and treatment, planning and administration of radiation therapy.
- recognize the importance of the patient in the decision-making process and influences that affect their choices (ie. palliative care and clinical trial decisions).

FACULTY: *Internal Medicine: Dr. Dan Berg, Dr. Thomas Carter, Dr. Gerald Clamon, Dr. Margarida deMagalhaes-Silverman, Dr. Thorvardur Halfdanarson, Dr. Raymond Hohl, Dr. Sarah Holstein, Dr. Mark Karwal, Dr. Brian Link, Dr. Mohammed Milhem, Dr. Susan Roeder, Dr. Lori Rosenstein, Dr. Alexandra Thomas, Dr. Daniel Vaena, Dr. Ahmad Wehbe, Dr. George Weiner*
Radiation Oncology: Dr. Carryn Anderson, Dr. John Buatti, Dr. Geraldine Jacobson, Dr. Mark Smith, Dr. Sudershan Bhatia, Dr. Wenqing Sun

MAX ENROLLMENT: *1*

OFFERED: *September-April*

LENGTH OF ELECTIVE: *2 weeks*

ADMINISTRATIVE CONTACT: *Dana Hartman, 6-2333*
Shawn Reynolds, 6-2699

REPORT TO: *Contact Dana Hartman and Shawn Reynolds 1 month prior to the start of the elective*

PREREQUISITES: *Completion of the M3 year*

078:550 CLINICAL INFECTIOUS DISEASE

OBJECTIVES: **The student will:** 1) Increase their understanding of the pathogenesis of infectious diseases and of the host's reaction to such disease processes; 2) Increase proficiency in the diagnosis and management of patients with infectious diseases, including the proper use of antibiotics; 3) Learn to apply clinical microbiology to the diagnosis of infectious diseases.

This will be achieved through: 1) Evaluation and follow-up of patients seen by the Infectious Diseases consult service; 2) Participation in daily clinical work rounds; 3) Clinical teaching during daily work rounds; 4) Participation in weekly Infectious Diseases grand rounds; 5) Participation in clinical microbiology rounds.

FACULTY: *Infectious Disease Staff*
MAX ENROLLMENT: *4*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Daniel Diekema or Stephanie O'Conner*
REPORT TO: *SW5-12 GH Conference Room; 8:30 am*

078:590 RESEARCH IN INFECTIOUS DISEASE

OBJECTIVES: **The student will:** 1. Learn how to develop an experimental model to study a particular infectious disease problem, 2. Learn specific research techniques, 3. Develop an appreciation for and knowledge of critical thinking process.

This will be achieved through: 1. Selection of a research problem agreeable to the student and to the staff. 2. Personal participation in the conduct of the research with the entire infectious disease staff.

FACULTY: *Dr. Diekema & Staff*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *8-24 weeks*
ADMINISTRATIVE CONTACT: *Dr. Daniel Diekema, SW-54 GH*
REPORT TO: *Arranged*

078:600 PULMONARY DISEASE - PULMONARY CONSULTATION SERVICE

OBJECTIVES: **The student will:** 1. Refine history taking and physical exam skills, with emphasis on symptoms and signs common to diseases of the cardiopulmonary system. 2. Learn diagnostic and therapeutic strategies for adult patients with pulmonary disease. 3. Interpret pulmonary function tests and thoracic radiographic studies. 4. Gain exposure to the role of a consulting physician.

This will be achieved through: 1. Participation in the Adult Pulmonary Consult service at University Hospitals. 2. Interpretation of pulmonary function tests with the consult fellow and attending. 3. Review of thoracic imaging studies with the consult fellow and attending. 4. Observation of invasive diagnostic and therapeutic procedures. 5. Attendance at teaching conferences for the Pulmonary Disease and Critical Care Division, held two-to-three times weekly. 6. Present at the clinical case conference on Friday noon (optional).

FACULTY: *Pulmonary faculty on rotational basis.*

MAX ENROLLMENT: 2

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Lakshmi Durairaj, M.D., Dana Hartman, or Sara Allen, 6-4419*

REPORT TO: *Consult Staff, 8:00 am*

078:601 RESEARCH IN PULMONARY DISEASE

OBJECTIVES: This course number will be used for faculty-directed investigations into one or more areas chosen by the student from the following list. Consultation with an instructor is required for registration.

Research Interests: Contact individual staff members regarding their research interests.

FACULTY: *Pulmonary faculty with active research projects.*

MAX ENROLLMENT: *Arranged*

OFFERED: *Arranged*

LENGTH OF ELECTIVE: *12 weeks*

ADMINISTRATIVE CONTACT: *Dr. Zabner, C33 GH*

REPORT TO: *Arranged*

078:602 PULMONARY DISEASE - MEDICAL INTENSIVE CARE UNIT

OBJECTIVES:

To introduce the student to modern concepts of critical care medicine.

To allow the student to develop skills and techniques required for management of critically ill patients.

The student will be expected to be an integral part of the MICU team and actively participate in patient management working with the housestaff and attending physicians.

The student will also be expected to take an active role in work rounds each morning, in-service conferences with other members of the ICU staff, and literature reviews relevant to their patients. Student will take in-house call every five nights on average and will take one day out of the hospital each week.

FACULTY: *Pulmonary faculty on rotational basis.*

MAX ENROLLMENT: *2*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kevin Doerschug, M.D., C33 GH,
Sara Allen, 6-4419, or Dana Hartman*

REPORT TO: *MICU at 8:00 am*

078:650 ADULT NEPHROLOGY

OBJECTIVES: The student will enhance his/her skills in diagnosis and treatment of acute and chronic kidney disease and hypertension, in assessment and management of fluid, electrolyte and acid base disorders and in understanding the indications and modalities for renal replacement therapy.

Students on the Nephrology Consult Service are integral members of our patient care team and are afforded the opportunity to assume significant responsibilities and play a vital role in the clinical and educational activities of the Division of Nephrology. During the adult nephrology rotation the student will become acquainted with a wide variety of challenges and experiences encountered in the practice of clinical nephrology, including evaluation of patients with both acute and chronic kidney disease, management of hypertension and evaluation of patients with complex fluid, electrolyte and acid base problems. Students will participate in rounds on in-patients at UIHC (no on-call responsibilities) and will be assigned to one ½ day ambulatory renal clinic per week at either UIHC or the VAMC. In addition students will attend teaching conferences of the Nephrology Division and participate in daily review of renal test questions.

FACULTY: *Renal Division Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Lisa Novak, E300 GH, 356-3446*
REPORT TO: *Office of Lisa Antes, E329 GH*

078:652 CLINICAL NEPHROLOGY, IOWA METHODIST, DES MOINES

OBJECTIVES:

- 4-week rotation. Assist with the evaluation and treatment of patients admitted and seen in consultation by the Nephrology Consult Service.
- Exposure to common nephrology problems including, acute renal failure, chronic renal failure, acid-base disorders, and common electrolyte disorders.
- Students will have the opportunity to develop & demonstrate patient care skills expected of a first-year resident under the supervision of a Nephrology Division faculty member.
- Students will dictate initial notes, write daily progress notes, write initial orders, and write daily orders on assigned patients.
- Participate in daily teaching rounds with faculty but no on-call responsibilities.
- Attend other educational conferences of the Internal Medicine Residency Program including daily noon conference and weekly Grand Rounds conferences.

FACULTY: *Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Des Moines Area Medical Education Consortium,
515-241-4455*
SPECIAL CONDITIONS: *Room provided; meal stipend provided.*

078:690 RENAL RESEARCH

OBJECTIVES: 1. To gain experience in an ongoing research project relating to the kidney. 2. To learn laboratory techniques relevant to the objectives of the project. 3. To develop skills in identifying and solving problems on specific research topics.

FACULTY: *Renal Staff*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *12 weeks*
ADMINISTRATIVE CONTACT: *Arranged*
REPORT TO: *Arranged*

078:700 CLINICAL RHEUMATOLOGY

OBJECTIVES: **The student will:** 1) increase his/her understanding of rheumatic diseases; 2) increase his/her skill in medical diagnosis of these diseases; 3) will learn the principles of management of patients with these diseases; 4) participate in clinical conferences.

This will be achieved through: 1) participation in daily clinical activities; 2) frequent patient-oriented discussion of problems as they arise on the clinical service; 3) independent study.

FACULTY: *Dr. Stafford and all Division faculty members*
MAX ENROLLMENT: *3*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Dr. Dee Dee Stafford*
REPORT TO: *UIHC Rheumatology Clinic, 31205 PFP,
(except Thursdays; VA 1th floor).*

078:998 INTERNAL MEDICINE ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

Individually arranged elective forms are to be approved by Dr. Scott Vogelgesang, Department of Internal Medicine. Credit for specially arranged courses in Internal Medicine is available ONLY if the course of study has been approved in advance.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

078:999 INTERNAL MEDICINE OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

Individually arranged elective forms are to be approved by Dr. Scott Vogelgesang, Department of Internal Medicine. Credit for specially arranged courses in Internal Medicine is available ONLY if the course of study has been approved in advance.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Dana Hartman*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF UROLOGY

COURSE DIRECTOR: Dr. Elizabeth Takacs

CONTACT PERSON: Kim Nauman
3122 RCP
353-8948

079:108 ADVANCED GENERAL UROLOGY

OBJECTIVES: The student will become an integral member of the ward team, functioning at the PGY-1 level (i.e. responsible for histories and physicals on admission, daily ward rounds, attending surgery, and seeing patient in the urology clinic). The student will be given graded responsibility for as much as possible of each patient's case. The student will prepare and present to the Urology Departmental Conference, a 15 minute didactic lecture on a selected urologic topic.

FACULTY: *Dr. Takacs*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kim Nauman*
REPORT TO: *Dr. Takacs*
SPECIAL CONDITIONS: *Students considering a Urology residency are encouraged to meet with Dr. Karl Kreder, Professor and Interim Head of the Department of Urology.*

079:109 PEDIATRIC UROLOGY

OBJECTIVES: Under the direction of the urology resident assigned to the pediatric service as well as the pediatric urology faculty, the senior student is expected to participate in the evaluation of clinical patients and participate in the care of selected surgical patients, including preoperative evaluation, intraoperative assistance and postoperative care. The student is encouraged to work under a close mentor-student relationship to develop skills in pediatric urology and to select and study a specific subspecialty topic. The student will prepare and present to the Urology Departmental Conference a 15-minute didactic lecture.

FACULTY: *Drs. Cooper and Kieran*
MAX ENROLLMENT: *1*
OFFERED: *All periods, except first 2 block*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Kim Nauman*
REPORT TO: *Dr. Takacs*
SPECIAL CONDITIONS: *Instructor consent required.*
PREREQUISITES: *Completion of M3 first semester, 070:002 Clinical Pediatrics, and instructor consent.*

079:110 INDIVIDUAL STUDY CLINICAL RESEARCH

OBJECTIVES: Individual projects, either pre-clinical or clinical, will be constructed by the class member and faculty representatives consisting of the urological senior staff and, where applicable, a member of another clinical department as dictated by the problem to be undertaken. No program can be approved or instituted without the permission of the head of the department. Upon completion of the project, the student will prepare a paper.

FACULTY: *Senior Urological Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Kim Nauman*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

079:115 UROLOGY ONCOLOGY: MULTISPECIALTY APPROACH

OBJECTIVES: The student will have a multispecialty exposure to the diagnosis and treatment of patients with current and newly diagnosed urologic malignancies. The student will spend on average of 1-2 days per week in either medical oncology or radiation oncology and the remainder of the time in either the urology oncology clinic or ORs. We will attempt to focus the rotation based on the student's interest, OR vs. clinical time. The student will attend the urology conferences, specifically indications, radiology, and pathology conference in addition to the bi-monthly multispecialty tumor board. This course is designed for students planning to enter into primary care that have an interest in oncology or men's health issues and for students with an interest in urology.

FACULTY: *Drs. O'Donnell, Brown, and Tracy; Dr. Mark Smith; Dr. Daniel Vaena*
MAX ENROLLMENT: *1*
OFFERED: *All periods, except first 3 block*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Kim Nauman*
REPORT TO: *Dr. Takacs*
PREREQUISITES: *Completion of M3 first semester.*

***079:117 FEMALE PELVIC FLOOR DYSFUNCTION**

OBJECTIVES: This course is designed for students with an interest in gynecology, women's health, or urology. The course will focus on dysfunction of the female pelvic floor; including pelvic organ prolapse, urinary incontinence, voiding dysfunction, pelvic pain, and disorders of the vulva. Students will spend time in the urology, urogynecology, and vulvar clinics and their respective procedures. When available students will spend time with a physical therapist trained in treatment of disorders of the pelvic floor or with colorectal surgery and GI.

FACULTY: *Urology and Gynecology faculty*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Kim Nauman*
REPORT TO: *Dr. Takacs*
PREREQUISITES: *Completion of M3 first semester
and 066:004 Clinical OB/Gyn.*

**079:120 COMMUNITY GENERAL UROLOGY
IOWA METHODIST, DES MOINES**

- OBJECTIVES:** 4-week rotation for students with career interest in urologic surgery. Students will function as an intern-equivalent on the Urology team at Iowa Methodist Medical Center. Activities include:
- Participate in pre-operative, intra-operative and post-operative care, including writing daily notes and orders for assigned patients, under the guidance of a senior surgery resident and urology faculty.
 - Actively assist the surgical team in the Operating Room for both hospitalized and outpatient surgery patients.
 - See and evaluate patients in the outpatient clinic setting to discuss both medical treatment and surgical management options for common urologic concerns seen.
 - Daily teaching rounds with Urology Division teaching faculty.
 - Attend other educational conferences of the Surgery Residency Program including Monday and Wednesday afternoon didactic conferences and weekly Morbidity & Mortality and Grand Rounds conferences.

FACULTY: *Drs. Markham Anderson, Jonathan Fialkov,
Richard Glowacki, Mark Kellerman, Michael
Kent, and Steve Rosenberg*

MAX ENROLLMENT: *1*

OFFERED: *Summer/Fall*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kim Nauman*

REPORT TO: *Arranged*

079:999 UROLOGY OFF-CAMPUS

- OBJECTIVES:** Individually arranged by student with approval of the department.

FACULTY: *Arranged*

MAX ENROLLMENT: *Arranged*

OFFERED: *Arranged*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kim Nauman*

SPECIAL CONDITIONS: *Individually arranged elective form must be
submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF FAMILY MEDICINE

COURSE DIRECTOR: Dr. Jill Endres

CONTACT PERSON: Laina Edwards
01293-G PFP
384-7517

115:401 FAMILY MEDICINE CLERKSHIP, BROADLAWNS, DES MOINES

OBJECTIVES: **The student will:** 1) function as an intern-equivalent in both the outpatient clinic and inpatient areas at Broadlawns Medical Center; 2) increase his/her knowledge in family medicine, demonstrating continuity/comprehensiveness of care as well as preventive aspects; 3) increase skills in those procedures appropriate to a family physician; 4) learn office management and how to utilize an electronic medical record system.

The student will: 1) function as an intern-equivalent in both the outpatient clinic and inpatient areas at Broadlawns Medical Center; 2) increase his/her knowledge in family medicine, demonstrating continuity/comprehensiveness of care as well as preventive aspects; 3) increase skills in those procedures appropriate to a family physician; 4) learn office management and how to utilize an electronic medical record system.

FACULTY: *Faculty of Family Medicine Residency Program*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *LuAnn Vondracek, 515-282-2581*
REPORT TO: *Dana Danley, M.D.*

115:403 RIVER CROSSING FAMILY MEDICINE CLERKSHIP

- OBJECTIVES:** The goal of this course is to provide an elective, advanced, rural community family practice clerkship, that will allow students to:
1. Experience continuity of patient care in a rural setting and see patients at all ages in the life-span;
 2. Have advanced experience in active participation in management of medical problems commonly seen in a rural family medicine office;
 3. Further develop their patient communication skills;
 4. Develop more advanced skills in health maintenance and patient education.
 5. Obtain concentrated experience working with Spanish speaking patients.

- STUDENTS WILL:**
1. Gain skill in assessment, diagnosis, treatment and management of patients with common illnesses seen in the ambulatory setting;
 2. Have an opportunity to be involved in care of OB patients through delivery; including being involved in weekly exams and following individual patients through their delivery.
 3. See patients at River Crossing Center and participate in their care and/or be responsible for taking call at UIHC one evening per week.

The Riverside Clinic is one of the regional family practice clinics that are part of UI Community Medical Services. It is managed and staffed by UI Department of Family Medicine physicians, physician assistants, and UI family practice residents and geriatric fellows. The clinic primarily serves the small rural communities of Riverside, Conesville and Nichols and the surrounding rural areas, and draws obstetrical and Spanish-speaking patients from West Liberty, Muscatine, Columbus Junction and Wapello. In addition to the normal range of family practice patients, there are many geriatric patients. Students may expect to participate in obstetric care, geriatric care, well-child care, and adolescent and adult care. In-patients are seen at the UIHC. Because of the large number of Latino patients, while not required, it is highly desirable that students speak Spanish since it is a definite advantage in successful patient communication.

FACULTY: *David Bedell, M.D.*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Laina Edwards*

REPORT TO: *Dr. Bedell*

SPECIAL CONDITIONS: *See above regarding desirability to be able to communicate with patients in Spanish.
It is necessary that student have access to a car.*

PREREQUISITES: *Completion of the M3 Family Medicine Clerkship*

115:404 PRECEPTORSHIP IN FAMILY MEDICINE

OBJECTIVES: The student will be able to: 1) develop skill in delivering ambulatory care in a community-based setting; 2) gain experience in working in a private medical practice; 3) be able to observe office management and the business aspects of medical practice. This will be accomplished by spending the allotted clerkship time in the practice of and under the supervision of a certified family physician selected from a pool of physicians representing a variety of rural and urban practices in Iowa. This pool consists of both solo practitioners and those practicing in varying group sizes, thereby affording each student the opportunity to select the type of situation which he/she is most interested in investigating.

FACULTY: *Dr. Jill Endres*
MAX ENROLLMENT: *Arranged*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Once registered for this preceptorship, you must contact Laina Edwards to make arrangements for preceptorship site.*

115:405 SUB-INTERNSHIP IN FAMILY MEDICINE - University of Iowa Hospitals and Clinics

- Objectives:** This course will emphasize the inpatient aspects of family medicine, including:
- Increase skills at assessment, diagnosis, treatment and management of patients with illnesses commonly seen by the family physician in the hospital setting.
 - Caring for families and patients throughout the lifespan.
 - Medical decision-making.
 - The interaction between inpatient care and the ER and clinical settings.
 - Prevention and patient education.

Student Expectations and Responsibilities:

Supervision:

- The student will be supervised by faculty on the Family Medicine Service. The student reports to the teaching resident or faculty who will assign daily responsibilities to the student. The student is assigned a personal pager and a personal work space at all times while on duty.

Patient care:

- Function as an R1 on the Family Medicine Inpatient Service with responsibility for initial assessment of patients in the emergency department, or sent from several family medicine clinics for direct admission, including obtaining a complete history, physical exam, and developing a differential diagnosis and strategy for prudent diagnostic work-up and treatment.
- Follow patients daily in the hospital from admission to discharge, writing orders (to be co-signed by the resident or staff) and on-line progress notes and discharge summaries.
- Be actively involved in gathering needed background information about the diagnosis and treatment of patients; assist in the library research and reference work indicated.
- Participate with Family Medicine team in delivery of at least 2 babies (optional).
- Practice evidence-based medicine with a clear and logical rationale for each diagnosis and each therapeutic recommendation.

Call:

- Take in-house call approximately every 5th day and have 4 days off during 28 day course (to be arranged with the Family Medicine team). Special call requests should be made to the chief residents one month ahead of time (contact Laina Edwards, 384-7517, who can put you in touch with the chief residents).
- The student will be excused following morning rounds when post-call.

Conferences:

- Students should attend morning report weekday mornings at 6:45 a.m. in the Resident Office Space, 01125 PFP.
- Develop their evaluation and communications skills by presenting patients at, as well as regularly attending, morning report, and by participating in morning rounds at UIHC.
- Participate in teaching conferences of the Department of Family Medicine at UIHC. The usual conference schedule is Monday, Wednesday, and Friday at 12:15 p.m. in the Department of Family Medicine.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine. Students should contact Laina Edwards to get permission before putting this course on schedule request worksheet.

FACULTY: *Richard Dobyms, M.D., Course Director*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
SPECIAL CONDITIONS: *Student should be without other obligations during the time period.*

**115:406 SUB-INTERNSHIP IN FAMILY MEDICINE, IOWA LUTHERAN HOSPITAL
FAMILY MEDICINE RESIDENCY PROGRAM, DES MOINES**

OBJECTIVES: 1) To provide the medical student with a strong PATIENT-ORIENTED interactive experience in an in-patient family practice environment. 2) To provide the medical student with additional clinical skills in the management of hospitalized patients. 3) To provide the medical student with a family practice philosophy of health care delivery.

The student will: 1) Have assigned patients they will manage. 2) Initially evaluate their patient(s) either prior to admission in the emergency department or as a direct admission. This will include a pertinent history, physical, differential diagnosis, and prudent diagnostic testing. The medical student will staff the patient with the residents and faculty member on the Family Practice In-Patient Service (FPIPS). 3) Follow the patient daily, writing a S.O.A.P. and staffing as above. 4) Participate daily in work rounds with the FPIPS residents. 5) Participate in daily attending rounds with the FPIPS residents and faculty member. 6) Participate in FPIPS selected clinical topics discussion group.

FACULTY: *Dr. Josh Rehmann and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
REPORT TO: *Des Moines Medical Education Consortium
Office, 515-241-4455.*
SPECIAL CONDITIONS: *Room provided; subsidized meal allowance.*

115:407 FAMILY MEDICINE CLERKSHIP, IOWA LUTHERAN, DES MOINES

OBJECTIVES: This is a four week rotation in which the student will be based at the East Des Moines Family Care Center with over 22,000 patient visits annually.

The student will: 1. Gain experience in delivering ambulatory care in a family practice office under the supervision of family physicians. 2. Further develop interviewing and therapeutic skills. 3. Gain skill in diagnosis and management of common illness as seen in a family practice office. 4. Be given the opportunity to develop skills in common procedures performed in a family practice office.

These objectives will be accomplished by the students' participation in: 1. The care of patients in the clinic and hospital setting. 2. Attendance at scheduled lectures and conferences.

FACULTY: *Dr. Josh Rehmann and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
REPORT TO: *Des Moines Medical Education Consortium
Office, 515-241-4455.*
SPECIAL CONDITIONS: *Room provided; subsidized meal allowance.*

**115:408 UNIVERSITY OF IOWA FAMILY MEDICINE CLERKSHIP,
FAMILY MEDICINE CENTER, POMERANTZ FAMILY PAVILION**

DESCRIPTION: This course will emphasize the outpatient aspects of key components of family medicine, including:

- Continuity of care.
- Comprehensive care.
- Caring for entire families and caring for patients throughout the lifespan.
- Integration of health care in the local community.
- Patient education.
- Care for acute and chronic diseases.

OBJECTIVES :

- Gain skill in assessment, diagnosis, treatment, and management of patients with common illnesses seen in the ambulatory setting while assigned to the Family Care Center.
- Work collaboratively with the other members of the health care team.
- Attend Family Medicine conferences.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine. Students should contact Laina Edwards to get permission before putting this course on schedule request worksheet.

FACULTY: *Jill Endres, M.D., Course Director*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
PREREQUISITES: *Completion of the M3 Family Medicine Clerkship*

115:409 FAMILY MEDICINE CLERKSHIP, MASON CITY

OBJECTIVES: **The student will:** 1) observe the medical care problems encountered in a rural referral center hospital, 2) increase his/her understanding of the concepts of family centered medical care, 3) increase his/her knowledge of common problems encountered by the family physician.

This will be achieved by: 1) participation in the patient management decisions and responsibilities for ambulatory and hospitalized patients with the supervision and assistance of the senior residents, faculty, and attending family physicians - areas of emphasis include internal medicine, obstetrics, pediatrics and emergency medicine; 2) participation in conferences, seminars, and patient management audits in the Family Medicine Center; 3) participation with the resident staff in the management of patients.

FACULTY: *Drs. D. Hanson, J. White, D. Clark, S. Henderson,
Charles Taylor, M.A., and John Swegle, PharmD*
MAX ENROLLMENT: 2
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Sharla Wellik, 641/422-7779*
REPORT TO: *Dr. J. White, Mercy Family Medicine Residency*

115:410 INDEPENDENT STUDY

OBJECTIVES: The student will work with a member of the Department of Family Medicine on an investigational study of his/her choice. The study should be in the field of family medicine.

FACULTY: *Dr. Jill Endres*
MAX ENROLLMENT: 2
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Dr. Jill Endres*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be
submitted 4 weeks prior to beginning of rotation.*

115:411 RURAL PRECEPTORSHIP IN FAMILY MEDICINE

- OBJECTIVES:** The goal of this course is to provide an elective advanced rural family medicine preceptorship for fourth year medical students that will allow them to:
1. experience continuity of patient care in a rural community setting,
 2. have advanced experience in active participation in management of medical problems commonly seen in a rural family medicine practice,
 3. learn effective strategies for patient care in a rural environment,
 4. become familiar with, and learn to attend to, the general emotional health needs of rural patients and their families, as well as learning about those emotional health issues unique to rural patients and their families,
 5. further strengthen their patient communication skills,
 6. develop more advanced skills in health maintenance and patient education activities,
 7. learn more about rural health issues,
 8. explore their interest in careers in rural family medicine.

Students complete a preceptorship at an approved site in a small Iowa town (population less than 10,000). Preceptors are board-certified Iowa family physicians who have completed training in effective clinical teaching. Preceptors volunteer for this teaching and are very enthusiastic teachers. By participating in preceptorships at these sites, students are able to experience the life of a rural physician, allowing them to consider rural medical practice as a possible career. Feedback from many students confirms that students who complete rotations away from Iowa City and other metropolitan areas are likely to have an experience more typical of a non-academic/non-urban medical practice. Students frequently return from these rural family practices very enthusiastic about the variety, depth and richness of their learning experience. A report of students' experiences in this course is available in the Department of Family Medicine. A list of approved sites is available in the Department of Family Medicine.

FACULTY: *Dr. Jill Endres*
MAX ENROLLMENT: *Arranged*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Once registered, contact Laina Edwards to make arrangements for preceptorship site.*

115:415 SUB-INTERSHIP IN FAMILY MEDICINE, CEDAR RAPIDS

OBJECTIVES: The learner will gain experience with important aspects of the Inpatient medicine rotation including: 1) development of clinical judgment regarding appropriate setting for care including, outpatient, inpatient, skilled nursing, and long-term care facilities. 2) diagnosing and managing of in-patient medical problems across the lifespan with the best current medical information. 3) appropriate use and organization of specialty care and ancillary services. 4) importance of empathy and communication with family. 5) importance of communication with, and respect for nursing staff and other health professionals. 6) coordination of community resources for ongoing care of patients.

EXPECTATIONS:

- 1) The student will function at the level of a new first year resident.
- 2) The student will take care of patients at Mercy Medical Center and St. Lukes Hospital.
- 3) The student will be part of the inpatient Family Medicine Rotation team that will include an upper level resident, physician faculty and a PharmD faculty.
- 4) The student is expected to do the initial workup of the patient, which includes obtaining and dictating a complete history and physical and developing a differential diagnosis.
- 5) The student will develop a strategy for appropriate diagnostic testing and management and write admission orders under the supervision of a senior resident or faculty.
- 6) The student will follow the patient from admission to discharge and write daily progress notes as well as dictate a discharge summary.
- 7) The student will present the patient at daily rounds and suggest a plan for ongoing treatment and/or diagnostic testing.
- 8) The student will help with consultation of, and ongoing, communication with specialists.
- 9) The student will develop skills in communicating and interacting with nursing staff and other health professionals.
- 10) The student will participate in discharge planning and arranging appropriate community resources.
- 11) The student will have the opportunity to participate in deliveries.
- 12) The student is expected to be on call with a senior resident an average of every 4th night.
- 13) The student will attend case-based conferences.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine.

FACULTY: *Faculty of Family Medicine Residency Program*
MAX ENROLLMENT: *1*
OFFERED: *All Periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Bev Kotowske 319-861-6949*
REPORT TO: *Anita Simison, MD*
SPECIAL CONDITIONS: *Transportation is required, meals are provided.*

115:416 FAMILY MEDICINE CLERKSHIP, CEDAR RAPIDS

OBJECTIVES: **The student will:** 1) develop skills diagnosing and managing common medical problems across the life span. 2) apply these skills with recognition of the importance of the patient's family and other social factors. 3) become skilled in computerized management of patient data, medical references, patient education, and preventive care systems. 4) develop skills in determining the relevance and validity of medical information.

This will be achieved by: 1) the student having his/her own schedule of patients in the Family Practice Center. 2) seeing common medical problems in the ambulatory setting and developing diagnostic and management plans under appropriate faculty supervision. 3) participate in morning inpatient rounds. 4) actively participate in group learning sessions including case-based conferences and small group sessions with behavioral science and pharmacology faculty. 5) participate in community outreach by going to school talks with a resident and faculty. 6) attend other resident "skill sessions" as the student's schedule allows, such as nursing home visits, diabetic education, etc. 7) observe and, when possible, participate in common office procedures such as colposcopy, LEEP, vasectomy, and biopsy/removal of skin lesions. 8) learn in an environment that encourages questioning and the use of point of care references.

FACULTY: *Faculty of Family Medicine Residency Program*
MAX ENROLLMENT: *1*
OFFERED: *All Periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Bev Kotowske 319-861-6949*
REPORT TO: *Anita Simison, MD*
SPECIAL CONDITIONS: *Transportation is required, meals are provided.*

115:417 CONTINUITY OF CARE IN OUTPATIENT FAMILY MEDICINE

OBJECTIVES: **The student will:** 1) expand his/her fund of knowledge related to common illnesses and problems that are encountered in family medicine; 2) gain experience in the assessment, evaluation and management of a wide variety of acute and chronic outpatient family medicine problems; 3) refine the integrative skills of communication, coordination of care, and information management; 4) have an opportunity to appreciate the value of building relationships with patients and families over time; 5) participate in attending to psychosocial, as well as physical, health needs of patients and families.

This elective can be taken concurrently with other electives in the medical school curriculum. The student will be expected to attend 80% of scheduled sessions recognizing that conflicting commitments may compromise achieving perfect attendance. Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.

FACULTY: *Dr. Jill Endres and Staff*
MAX ENROLLMENT: *arranged*
LENGTH OF ELECTIVE: *Full academic year*
ADMINISTRATIVE CONTACT; *Laina Edwards*
REPORT TO: *t/b/a*
SPECIAL CONDITIONS: *Student must receive permission from Dr. Endres to register for this course.*

OSAC GUIDELINES FOR ALL COC CLERKSHIPS:

1. *The COC is taken concurrently with other required and elective courses during the M4 year.*
2. *Students are not allowed to register for more than one COC.*
3. *Students must attend 80% of 42 schedulable weeks = 34 COC sessions.*
4. *Make-up sessions may be arranged at the discretion of the course director to satisfy the attendance requirement.*
5. *Students must limit their time off request from 2 week clerkships to one half day per clerkship (i.e., only one COC session during a 2 week clerkship).*
6. *Students must have limited "off campus" weeks including away and global electives to meet the 34 session COC requirement.*
7. *Students are not allowed to register for a COC and be a group facilitator*
 - Facilitating/teaching in Case-Based Learning in FCP I*
 - Cased-Based Learning in FCP II*
 - Physical Exam Skills in FCP II*
 - Patient-Centered Learning in FCP III*
 - Case-Based Learning for admission interviews*

115:419 FAMILY MEDICINE CLERKSHIP, DAVENPORT

OBJECTIVES: **The student will:** 1) become familiar with problems seen commonly in a family medicine office and gain experience in the evaluation, diagnosis, and management of these patients. 2) gain experience in the care of hospitalized family medicine patients.

This will be accomplished by: 1) patient care in the rural branch office (Blue Grass) and in the Family Medicine model office (Davenport) with the direct support of staff and resident physicians; 2) workup and management of some patients who require hospitalization, 3) morning rounds with the family medicine team; 4) exposure to occupational and geriatric medicine through staff involvement; 5) teaching conferences.

FACULTY: *Faculty of Family Medicine Residency Program*
MAX ENROLLMENT: *3*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Trish Halligan, CPMSM, 563-421-4455*
REPORT TO: *Dean Bunting, M.D., 563-421-4455*

115:420 FAMILY MEDICINE CLERKSHIP, SIOUX CITY

OBJECTIVES: **The student will:** 1) be introduced to the methods used in common medical practice oriented towards Family Medicine; 2) increase his/her abilities to manage common health problems seen by a family physician.

This will be accomplished by: 1) participation in the care of patients seen by the physician and residents of the Family Medicine residency program with the supervision of selected faculty and residents; 2) exposure to various services of the hospital with the option of electing additional services which he/she feels will be of educational benefit to him/her; 3) he/she will be expected to attend and participate in all regularly scheduled resident conferences and lectures of the Family Medicine program.

FACULTY: *Dr. Delwyn Lassen*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *2 or 4 weeks*
ADMINISTRATIVE CONTACT: *Susan Leonard 712-294-5018 Fax 712-294-5091
or email to s.leonard@slmef.org*
REPORT TO: *Dr. Delwyn Lassen*
SPECIAL CONDITIONS: *Contact Susan Leonard once assigned to this
rotation to make arrangements.*
PREREQUISITES: *Completion of the M3 Family Medicine Clerkship*

115:423 SUB-INTERNSHIP IN FAMILY MEDICINE, WATERLOO

OBJECTIVES: This course will emphasize the inpatient aspects of key components of family medicine, including: 1) continuity of care; 2) integration of health care in the local community; 3) caring for entire families and caring for patients throughout their lives; 4) patient education and prevention.

- GOALS:**
1. Serve as a member of the Family Practice Inpatient Team at Allen Memorial Hospital and Covenant Medical Center with responsibility for initial assessment of patients in the ER's, or sent from the FPC for direct admissions including obtaining complete history, physical exam and developing a differential diagnosis and strategy for prudent diagnostic testing.
 2. Being supervised by the FP Team Chief Resident, other licensed members of the Team and the rounding and on-call faculty physicians.
 3. Following patients daily in the hospital and writing progress notes.
 4. Dictating discharge summaries.
 5. Take first call approximately every 4th night with the Chief Resident.
 6. Apply and improve his/her skills of assessment, diagnosis, treatment and management of patients with illnesses commonly seen by family physicians.
 7. Following patients from admission through discharge.
 8. Develop evaluation and communication skills by presenting patients and doing occasional clinical presentations at morning teaching sessions.
 9. Opportunities to work with patients in two community hospitals.
 10. Opportunities to assist with obstetrical care and deliveries.
 11. Participation in weekly didactic conference.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine. Students should contact Laina Edwards to get permission before putting this course on schedule request worksheet.

FACULTY: *Faculty of Family Medicine Residency Program*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Wendy Hudson, 319-272-2855 or 800-211-9283*
REPORT TO: *Robert Friedman, M.D., or other designated supervising physicians*
SPECIAL CONDITIONS: *Transportation is required. A sleeping room and meals in the hospital are provided at no charge to the student. Students must be free of other obligations during this time period. Students must provide a record of immunizations and health screening.*

115:424 FAMILY MEDICINE CLERKSHIP, WATERLOO

The Northeast Iowa Medical Education Foundation and Family Practice Residency Program offer the fourth year medical student an opportunity to spend four weeks in the Family Practice Center.

OBJECTIVES:

1. Understand the basic concepts of Family Medicine, including the importance of health maintenance, continuity of care, and family dynamics.
2. Acquire experience in the management of ambulatory care patients.
3. Acquire the ability to develop management plans for acute and chronic problems at various levels of care.
4. Gain experience the appropriate use of hospital outpatient facilities for diagnostic and therapeutic procedures.

These objectives will be achieved through:

1. Participation in the care of patients of the Northeast Iowa Family Practice Center. The student will have eight-twelve patient encounters daily.
2. Participation in the admission and diagnosis of selected hospitalized patients, as well as post-hospitalization follow-up.
3. Experience in the Centers laboratory and x-ray department, plus exposure to our behavioral scientist and clinic practice management.
4. Observation and participation in flexible sigmoidoscopy, colonoscopies, vasectomies, excision of lesions and other office surgical procedures.
5. Optional attendance at obstetrical deliveries available 5:00 p.m. to 7:00 a.m.
6. Attendance at all appropriate scheduled and educational conferences.

FACULTY: *Faculty of Family Medicine Residency Program*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Wendy Hudson, 319-272-2855 or 800-211-9283*

REPORT TO: *Wendy Hudson, Educational Coordinator,
Northeast Iowa Medical Education Foundation,
2055 Kimball Avenue, Waterloo, IA 50702*

SPECIAL CONDITIONS: *A sleeping room and meals in the hospital cafeteria
will be provided at no cost to the student.*

115:426 FAMILY MEDICINE GERIATRICS

OBJECTIVES: Students will help monitor and evaluate the health and functional status of patients 65 or older in the Geriatric Assessment Clinic and in some community settings. Students will increase their knowledge of how to handle medical and psychosocial problems of the elderly. Participation in conferences including Geriatrics Staffing and Geriatrics Journal Club will be part of the teaching experience.

Time and resources are available for students to read about their patients' problems. Special original clinical investigation projects can be developed by students.

FACULTY: *Drs. Margo Schilling, John Rachow, Jose Ness
Paul Mulhausen, Gerald Jogerst, Richard Dobyms,
and Jason Wilbur*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Laina Edwards*

REPORT TO: *Paul Mulhausen, M.D. or Gerald Jogerst, M.D.*

PREREQUISITES: *Completion of the M3 Family Medicine Clerkship*

115:427 FAMILY MEDICINE GERIATRICS/PALLIATIVE CARE, DAVENPORT

- PURPOSE:** The purpose of a Geriatric / Palliative Care rotation for fourth year medical students is to provide opportunities in which the students can:
- 1) Develop skills in caring for geriatric patients in the inpatient, clinic, nursing home and home settings.
 - 2) Develop skills in caring for patients with terminal illnesses in the inpatient, clinic, nursing home and home settings.
 - 3) Develop skills in caring for patients at the end of life.
 - 4) Work with interdisciplinary teams including nurses, social workers, chaplains, rehab specialists, nutritionists and pharmacists.
- OBJECTIVES:** To increase the students exposure to geriatric, palliative, and end-of-life care issues and to assess the student's competency in the evaluation and management of these patients and the interdisciplinary nature of geriatric and palliative care.
- REQUIREMENTS:**
- 1) The students must be involved in direct patient care under the supervision of faculty and senior level residents.
 - 2) A written defined set of goals and objectives specific to the rotation will be provided to the student at the beginning of the rotation.
 - 3) The student's experience will include inpatient hospital rounds, inpatient hospice house rounds, outpatient clinic patients, nursing home rounds, and home visits.
 - 4) The patient population will have a wide variety of diagnosis as appropriate for both inpatient and outpatient settings.
 - 5) The student will be involved in the care of patients who are actively dying in the inpatient and outpatient setting.
 - 6) The student will be interacting with other health care specialists including nurses, social workers, chaplains, nutritionists, pharmacists, and physical and occupational therapists.
 - 7) The student will be expected to document clinical activities as appropriate in the medical record and be reviewed daily by the supervising faculty physician. Feedback regarding these notes is to be given to the student on a daily basis.
 - 8) For patients with terminal diagnosis, the student is expected to demonstrate knowledge in pain management, non-pain symptom management, social, psychological, and spiritual needs, and participation in interdisciplinary team meetings.

FACULTY: *Faculty of Family Medicine Residency Program*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Trish Halligan, CPMSM, 563-421-4455*
REPORT TO: *Stephen Sorensen, MD*

115:429 SUB-INTERNSHIP IN FAMILY MEDICINE, SIOUX CITY

OBJECTIVES: The learner will gain experience in all areas of Family Medicine by participating as a junior resident. This will include maternity care, child and adolescent health, and adult medicine.

EXPECTATIONS:

- 1) The student will function at the level of a resident.
- 2) The student will spend most of his/her time at St. Luke's Regional Medical Center under the supervision of upper-level residents and the faculty.
- 3) The student will be expected to do the initial work-up of new patients, including writing a note, dictating the history and physical and writing orders with the resident or faculty. The patients will be within the scope of family medicine including infants, children and adults. Maternity care including delivery and post-partum care is expected.
- 4) The student will be expected to round on the admitted patients and develop a care plan on a day-to-day basis.
- 5) The student will see patients at the Family Medicine Center clinic about one afternoon per week.
- 6) Call will be taken with the upper level resident one week night per week and one weekend of the rotation.
- 7) Student will attend noon conferences on a daily basis.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine. Students should contact Laina Edwards to get permission before putting this course on schedule request worksheet.

FACULTY: *Kurt A. Rosenkrans, M.D.*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Susan Leonard 712-294-5018 Fax 712-294-5091
or email to s.leonard@slmef.org*
REPORT TO: *Contact Susan Leonard at least two weeks prior to
beginning of rotation to arrange meeting time and
place.*
SPECIAL CONDITIONS: *Transportation is required. Lodging is provided in
an apartment very close to the Family Care
Center. (There may be other students staying there
at the same time.) The apartment has cooking
facilities, but students may also take all meals at
the hospitals. Contact Susan Leonard prior to
arrival for specific details about the housing
arrangements.*

**115:430 SUB-INTERNSHIP IN FAMILY MEDICINE, DAVENPORT
GENESIS MEDICAL CENTER**

OBJECTIVES: To increase student experiences in in-patient family medicine through:
1) Assessing and managing hospitalized patients
2) Evaluating and treating patients in the emergency room
3) Participating in call coverage with Family Medicine residents

Student Expectations and Responsibilities:

Supervision: The student will be supervised by Faculty on the Family Medicine Service and the R3 on the Family Medicine rotation. They will be provided with daily responsibilities by these two individuals working in conjunction.

Patient Care: 1) The student will function the same as an R1 on the Family Medicine rotation with responsibility for initial ER evaluation of patients, or direct admissions from the FMC clinic or two rural practices. This includes obtaining an H & P, developing a differential diagnosis and creating a strategy for workup and initial treatment.

2) The student will follow their patients daily in the hospital until discharge and write orders and progress notes along with the resident on the service, as well as helping arrange appropriate consultations.

3) The student will participate in morning sit down rounds daily during the week and go on patient rounds with the faculty and R3 on the service.

4) The student will also participate in morning didactic sessions, preparing by reading assigned articles or other materials chosen by the student (or R1 on the rotation) after doing literature searches on their inpatients.

Call: The student will cover first call with resident once a week, helping answer phone calls and seeing ER patients. Students will be given time off the following day after completion of morning duties when they are post-call.

Conference: The student will be expected to attend noon (12:30) conference at the model clinic when not busy with hospital responsibilities.

FACULTY: *Faculty of Family Medicine Residency Program*

MAX ENROLLMENT: *1*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Trish Halligan (563) 421-4455*

REPORT TO:

SPECIAL CONDITIONS: *Transportation required;
meals and lodging are provided.*

115:431 PRIMARY CARE SPORTS MEDICINE

DESCRIPTION: The goal of the Primary Care Sports Medicine elective is to provide a comprehensive, diverse, educational experience in the field of Sports Medicine. Graduates will possess the clinical competence needed to diagnose and manage medical illnesses and injuries related to sports and exercise in a variety of patients, recreational and organized athletes, and teams.

OBJECTIVES: By the end of the 4 week elective, medical students will be proficient in all six ACGME core competencies applicable to the field of Primary Care Sports Medicine. Specifically, students will be able to: 1) Provide continuing, comprehensive care for health problems related to sports and exercise through exposure to the evaluation and treatment of common musculoskeletal injuries. 2) Demonstrate competence in performing the musculoskeletal exam and appropriate documentation. 3) Perform technical procedures, such as: casting and splinting, arthrocentesis and intra-articular joint injections, subacromial shoulder injections, tendonopathy injections, and trigger point injections. 4) Serve as team physician to several teams which engage in seasonal sports and provide comprehensive and continuing care to team athletes. 5) Function as part of a member of a multi-disciplinary sports medicine team including primary care physicians, orthopaedic surgeons, musculoskeletal radiologists, physical therapists, and certified athletic trainers.

FACULTY: *Dr. Kyle Smoot*
MAX ENROLLMENT: *1*
OFFERED: *Closed 1/7/13*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Laina Edwards*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Student must be entering a Primary Care specialty.*

115:999 FAMILY MEDICINE OFF-CAMPUS

OBJECTIVES: Students who wish to arrange special clerkships in Family Practice working with physicians or community hospitals outside Iowa City may do so under this course number. The supervising physician must either be a diplomat of the American Board of Family Practice or the equivalent. Prior approval must be obtained from the Department of Family Medicine through Dr. Jill Endres.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Laina Edwards*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF ANESTHESIA

COURSE DIRECTOR Dr. James Choi

CONTACT PERSON: Lorri Barnes
6505-1 JCP
384-9273

116:006 CLINICAL ANESTHESIA

OBJECTIVES: This introductory two week rotation in the Department of Anesthesia is for third or fourth year medical students, and will acquaint them with the perioperative management of patients.

Students will attend didactic lectures on Monday and Tuesday morning at 6:30 AM in the Cullen Conference Room, and Case Conferences on Wednesday afternoons from 5:00-6:00 PM. In addition they will receive a series of approximately nine lectures designed specifically for medical students which cover the basic facets of anesthetic management. The didactic material is supplemented with extensive clinical exposure where medical students will have a daily assignment with residents and faculty physicians for a variety of cases. Clinical opportunities are generally provided in the Main Operating Room Suite of the UIHC; however, anesthesia care is also provided at other sites in the hospital including the Urology Department, ECT treatment room, and other satellite locations. Opportunity exists for students to spend time in the Pain clinic and OB.

Students will undergo a computerized examination at the completion of their two weeks and will also be evaluated clinically during the rotation by residents and faculty. The final grade is determined by performance on the computer examination and the clinical evaluations. Students must pass the computer examination to pass the course. This course serves as a prerequisite for Clinical Anesthesia 116:010 which is available to the senior medical students as well as the Surgical Intensive Care Unit.

Please contact Lorri Barnes at 4-9273 for information regarding the departmental absence policy, including COC clinics, residency interviews, and UI holidays.

NOTE: The Department of Anesthesia offers an Externship program for students in their senior year. It is recommended that students interested in applying for this program take the 116:006 two week Anesthesia rotation during their third year. They must take the Clinical Anesthesia 116:010 four week rotation by the end of October in their fourth year.

FACULTY: *Dr. James Choi*
MAX ENROLLMENT: *8 (and must maintain a minimum of 3)*
OFFERED: *Aug - May*
LENGTH OF ELECTIVE: *2 weeks*
ADMINISTRATIVE CONTACT: *Lorri Barnes*
REPORT TO: *Department of Anesthesia, Cullen Conference
Room (6426 JCP) at 6:30 AM*
PREREQUISITES: *Completion of the M2 year*

116:010 CLINICAL ANESTHESIA SENIOR ROTATION

OBJECTIVES: **The student will:** Build on the knowledge and experience gained from the two week Anesthesiology elective rotation (116:006). Students will gain more advanced airway management skills. Students will encounter patients with complex medical and surgical conditions. The course will be tailored to meet the need and interest of the student; students will have an opportunity to spend extended time on subspecialty areas (OB, neuro, cardiac, pediatric, regional, ASC, VAH and Pain Clinic). Completion of an academic project (case report and discussion) is a requirement.

This will be achieved through: 1) preoperative, intraoperative, and postoperative care for patients undergoing surgical procedures. 2) direct supervision by a staff anesthesiologist. 3) attendance at conferences and teaching activities of the section, and completion of an academic project.

FACULTY: *Staff*
MAX ENROLLMENT: *1 – 5sUNDAR*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Lorri Barnes*
REPORT TO: *Cullen Conf. Room 6426 JCP at 6:30 am*
PREREQUISITE: *116:006*

116:011 INTENSIVE CARE (SICU)

OBJECTIVES: **The student will:** 1) receive in-depth exposure to continuous invasive and non-invasive monitoring techniques including ECG, pulse oximetry, arterial blood pressure, central venous pressure, pulmonary artery pressure monitoring. 2) gain experience in use of vasoactive drugs. 3) gain experience in managing acid-base and fluid balance alterations associated with critical illness. 4) be introduced to ventilatory management of critically ill patients. 5) have exposure to critically ill patients. 6) have exposure to trauma, transplant, and post-surgical patients in addition it offers a unique opportunity to work in the largest ICU in the state of Iowa and largest Neurosurgical ICU in the state. 7) learn about neurologic monitoring, management of intracranial pressure, management of closed head injuries and exposure to management of other neurologic and neurosurgical emergencies; 8) be exposed to the role of multi-disciplinary management teams with clinical nutrition service, physical therapy, and social work.

This will be achieved through: 1) involvement in the care of critically ill patients in the Surgical Intensive Care Unit (SICU) under the supervision of residents, fellows and staff. 2) participation during teaching rounds. 3) attendance at conference seminars and teaching activities provided by the SICU.

FACULTY: *Dr. Sundar Krishnan and Staff*
MAX ENROLLMENT: *4*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Melinda Allbaugh*
REPORT TO: *SICU Reception Desk and ask to be directed to the SICU Conference Room, 7:00 am*

116:333 INTENSIVE CARE OFF-CAMPUS

This rotation will be individually arranged by the student with the approval of the department.

OBJECTIVES: **The student will:** 1) receive in-depth exposure to continuous invasive and non-invasive monitoring techniques including ECG, pulse oximetry, arterial blood pressure, central venous pressure, pulmonary artery pressure monitoring. 2) gain experience in use of vasoactive drugs. 3) gain experience in managing acid-base and fluid balance alterations associated with critical illness. 4) be introduced to ventilatory management of critically ill patients.

This will be achieved through: 1) involvement in the care of critically ill patients in the Intensive Care Unit under the supervision of residents, fellows and staff of the host institution. 2) participation during teaching rounds. 3) attendance at conference seminars and teaching activities provided by the ICU.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Lorri Barnes*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

116:998 ANESTHESIA ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department. This course consists of research or further study in a well-defined project relating to anesthesia. The project will be planned in advance by the student and instructor, and should be of a nature that it can be completed within the proposed time.

Among the areas of study available are: 1) Research of drug effects on neuromuscular conduction and action potential generation utilizing microelectrode techniques. 2) Research in effect of drugs on human memory and clinical pharmacokinetics of intravenous drugs. 3) Research on the effects of drugs on circulation in humans and animals.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Lorri Barnes*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

116:999 ANESTHESIA OFF-CAMPUS

OBJECTIVES: Individually arranged by the student with the approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Lorri Barnes*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF NEUROLOGICAL SURGERY

COURSE DIRECTOR: Dr. Matthew Howard

CONTACT PERSON: Carol Bontrager
1617 JCP
353-7902

183:227 SUB-INTERNSHIP IN NEUROSURGERY

OBJECTIVES: This advanced clinical clerkship is designed for students interested in neurologic diseases. There will be emphasis on the diagnosis of neurologic disorders as well as operative therapy. **The student will** be expected to attend related conferences with Radiology and Neurology. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and faculty member. Evaluation will be based upon the ward performance.

FACULTY: *Dr. Howard and Staff*
MAX ENROLLMENT: *2*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Carol Bontrager*
REPORT TO: *Dr. Howard, 1823 JPP, 8:00 am*

183:228 RESEARCH IN NEUROLOGICAL SURGERY

OBJECTIVES: Students will plan and conduct research in a clinical or laboratory topic under the direction of a faculty member. This may be part of an ongoing project. Areas of laboratory investigation include cerebral blood flow, spinal cord injury, spinal biomechanics/instrumentation, tissue culture, and electrophysiology of pain mechanisms, auditory cortex, and auditory neural prostheses.

FACULTY: *Dr. Howard and Staff*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Dr. Howard*
REPORT TO: *Instructor*
SPECIAL CONDITIONS: *Contact Dr. Howard with inquiries.
Individually arranged elective form must be
submitted 4 weeks prior to beginning of rotation.*

183:999 NEUROSURGERY OFF-CAMPUS

OBJECTIVES: Individually arranged by the student with the approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Carol Bontrager*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be
submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF EMERGENCY MEDICINE

COURSE DIRECTOR: Dr. Michael Takacs
michael-takacs@uiowa.edu

CONTACT PERSON: Kelly Norton
kelly-norton@uiowa.edu
1008 RCP
384-6511

184:220 EMERGENCY MEDICINE AT ST. LUKE'S, CEDAR RAPIDS

OBJECTIVES: Preceptorship with full time Emergency Department Physicians. Exposure to full spectrum of Emergency Department patients including the range from minor trauma and infectious diseases, to major trauma and cardiovascular emergencies. Students will perform under close supervision.

Student evaluation will consist of 75% clinical and 25% didactic. Clinical evaluation will be based on performance with evaluations by St. Luke's faculty on a shift by shift basis. Didactic evaluation will be by written exam in conjunction with the students taking the Emergency Medicine clerkship at UIHC. Didactic teaching will be on Tuesday mornings at UIHC and will consist of case conference and simulation. There are 16 hours of formal didactic teaching with UIHC faculty. Students are also required to complete a systems based practice project.

The Carver College of Medicine policy on attendance and time off requests will be followed. Keep this in mind when registering during interview season.

Students will work 14 shifts per month; shifts are a mix of days and nights. The day shift is 7 am – 5 pm and the night shift is 9 pm – 7 am. Time off requests must be submitted at least 3 weeks prior to the start of the rotation. Dr. Shedek will make the schedule. Students are required to schedule a mid-rotation and end of rotation evaluation with Dr. Shedek.

FACULTY: *Dr. Brian Shedek (319-389-3984 or
brian.k.shedek@gmail.com)
Dr. Michael Takacs, Didactics*

MAX ENROLLMENT: 2

OFFERED: *All periods, except block 1*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kelly Norton*

REPORT TO: *Nurses' Station, St. Luke's ER, 369-7105*

SPECIAL CONDITIONS: *Scrubs are provided or student may wear lab coat. Nametags must be worn.*

PREREQUISITES: *Completion of M3 year.*

184:221 EMERGENCY MEDICINE UIHC

A 4 week clerkship with emergency medicine residents and faculty in which the principles of acute care medicine and the approach to life threatening disease are emphasized. The student will perform under the close supervision of the staff physician responsible for the Emergency Department.

Students will be scheduled for 17 clinical shifts 8 or 9 hours in length. A combination of day, evening, and night shifts is required to maximize exposure to a wide range of problems. Students are required to attend case conferences and simulations held each Tuesday morning. Grading will be 75% clinical and 25% from written exam.

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students must report to the emergency department at 8:00 am on the first day of the elective for orientation. Student evaluation will be based on a combination of his/her performance in the ED and a written examination. Students are required to attend 16 hours of simulation lab and case conference. Students are also required to complete a systems based practice project..

FACULTY: *Drs. Michael Takacs and Olivia Bailey*
MAX ENROLLMENT: *6-8*
OFFERED: *All periods except block 1 (when ALS is offered)*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *Emergency Department, 8:00 am, 1st day.*
SPECIAL CONDITIONS: *All time off requests must be submitted 2 week prior to the start of the rotation.*
PREREQUISITES: *Completion of M3 core clerkships in Surgery, Pediatrics and either Internal Medicine or APM.*

184:222 EMERGENCY MEDICINE OFF-CAMPUS

OBJECTIVES: This clerkship teaches the principle of emergency medicine. The student will perform under the close supervision of a staff physician. Student evaluation will be based on his/her performance in the emergency room and any required didactics and exam.

Students scheduling this course to satisfy the Emergency Medicine requirement may only do so through an accredited LCME institution that offers a formal 4 week clerkship in Emergency Medicine. In addition, Dr. Takacs must approve this rotation at the time of your registration. In the past such hospitals have been the following: Denver Health Medical Center, Denver, CO; Hennepin County Medical Center, Minneapolis, MN; Regions Hospital, St. Paul, MN; however, the rotations are not limited to these hospitals.

Students scheduling this course as an elective are not required to do so through an accredited LCME institution.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation. Approval is required by Dr. Takacs in Emergency Medicine.*
PREREQUISITES: *Completion of M3 year.*

184:223 RURAL EMERGENCY MEDICINE AT BURLINGTON, IA

Preceptorship designed to provide an in-depth exposure to the management of a wide range of clinical problems in a rural setting. The rotation is specifically recommended for those students with career interests in emergency medicine and an interest in the delivery of emergency medical care in rural environments. The host hospital, Great River Medical Center, is a rural resource institution designated as a Level III trauma center. The attending emergency department physicians are all residency trained in emergency medicine, hold certification from the ABEM and practice in a democratic, independent group model of organization. Students will perform under the direct supervision of the attending physicians and will be encouraged to gain experience in both diagnostic and procedural skills. Clinical work will be supplemented by formal didactic exercises in collaboration with University of Iowa faculty and staff. Performance will be evaluated by clinical performance assessments and by written examination based on selected readings, assigned didactics, and simulation lab. Schedule arrangements will be flexible, but will include an average of 120 clinical contact hours.

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students are required to attend a 1 day simulation lab at UIHC. An exam is required from assigned readings, online exercises, and simulation labs. Students must also complete a systems based practice project.

FACULTY: *Dr. James Vandenberg and Associates
(tobyvandenberg@hotmail.com)*

MAX ENROLLMENT: 2

OFFERED: *All periods, except block 1*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kelly Norton*

REPORT TO: *Bobbi Ahlen, ED Director,
(bahlen@grhs.net) 319-768-4721 or
Becki Peitz, Hospital Staff Coordinator, 319-768-
3254; Great River Medical Center Emergency
Room, 1221 S Gear Ave, 319-768-3254*

PREREQUISITES: *Completion of M3 core clerkships in Surgery,
Pediatrics and either Internal Medicine or APM.*

184:224 INTRO TO ADVANCED LIFE SUPPORT SKILLS

OBJECTIVES: Students will undergo an intensive program providing “basic training” in life support skills, experience in procedures common to critical care settings, and a basic understanding of prehospital triage, transport and initial treatment processes. The month is divided among lectures, demonstrations, skills labs, advanced manikin training and patient care in emergency department settings. The student will complete the following standard courses:

Advanced Cardiac Life Support Provider Course
Advanced Pediatric Life Support provider Course
Neonatal Resuscitation Course

And will receive additional exposure to the recognition and management of common clinical problems including:

Trauma
Wound Care
Respiratory insufficiency
Acute myocardial infarction
Poisoning
Stupor and Coma
Shock
Sepsis

FACULTY: *Dr. Hans House*
MAX ENROLLMENT: *18*
OFFERED: *6/25/12 ONLY*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *EMSLRC – 6S GH*
PREREQUISITES: *Completion of M3 year.*

184:225 WILDERNESS MEDICINE

Provision of medical care in the remote and austere environment; includes special topics on illnesses and injuries that occur under these conditions as well as survival skills for the care provider. Scenario and didactic training in wilderness medicinal skills including travel to Colorado for field and exercise. Considerable time commitment required.

Student is responsible for travel expenses. Student is required to sign conditions of participation certificate.

FACULTY: *Dr. Christopher Buresh*
MAX ENROLLMENT: *12*
OFFERED: *4/1/13 ONLY*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *Student will be contacted by Dr. Buresh.*
SPECIAL CONDITIONS: *Student must have current CPR certificate.*
PREREQUISITES: *Completion of M3 year.*

184:226 TRANSITION TO RESIDENCY

OBJECTIVES: Students will undergo an intensive program providing “basic training” in life support skills, experience in procedures common to the inpatient hospital environment, and practice with simulated critical care scenarios. This two week elective consists of lectures, small group discussions, procedure labs, high-fidelity simulations, and self-directed on-line learning. By the end of the course, the learner will become confident about fulfilling their duties as a house staff physician.

In the process of the course, all students will become certified in Advanced Cardiac Life Support (ACLS). The fee for the ACLS self-directed learning module (CD based) is approximately \$120. The onsite skills testing fee and completion card will be covered.

FACULTY: *Dr. Hans House*
MAX ENROLLMENT: *30*
OFFERED: *3/18/13 and 4/29/13*
LENGTH OF ELECTIVE: *2 weeks*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *Department of Emergency Medicine, 0073 RCP*
PREREQUISITES: *Completion of the M3 year*

184:402 EMERGENCY MEDICINE-AMBULATORY CARE, BROADLAWNS, DES MOINES

- OBJECTIVES:**
- 1** To develop the student's clinical skills and professionalism in the art and science of managing urgent and emergent primary care medical problems.
 - 2** To gain an understanding of how human behavior, human personalities, and a patient's socioeconomic environment impacts the physical and emotional aspects of a disease process, so that the student can effectively treat disease and attempt to modify behavior.
 - 3** To obtain an awareness of liability and medical malpractice issues.
 - 4** To encourage the student to use his/her fund of clinical and basic science knowledge in formulating a plan for evaluating and treating medical emergencies. This will enable the student to understand WHY, not just remember HOW a disease is treated.
 - 5** To gain as much experience as possible in a variety of emergency medical and psychiatric problems such as drug overdoses, blunt and penetrating trauma, acute psychosis, fractures, infections, diseases, and organ failure in a diverse multicultural patient population.
 - 6** To gain experience in the areas of domestic violence, sexual abuse and chemical abuse/dependency.
 - 7** To understand the principles of cost effective primary care/emergency medicine with emphasis on appropriate referral, consultation, and follow-up.
 - 8** To obtain practical procedural experience in wound repair, casting, splinting, minor surgery, intravenous access management and airway management.

The student will be supervised and taught by the attending staff who are board certified in family practice and/or emergency medicine. The student will be scheduled to work a rotation involving days, evenings, nights and weekends to ensure an exposure to the varying patterns of emergency medicine patients. During the day, students will attend morning report and noon teaching conferences.

The student will be exposed to a high volume emergency department that records approximately 2500 patient visits per month where they will work side-by-side with PAs and Residents. The student will also have exposure to pre-hospital care and our 24 hour a day Crisis Intervention Mental Health Team.

All students are oriented to the E.D. and ancillary services on the first day of the rotation by Medical Education staff, the attending physician on duty, the Crisis Team, the charge nurse, and the Director of Social Services.

Students are encouraged to come with a desire to: 1) work hard 2) learn by doing 3) grow and mature as a physician.

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students are required to attend a 1 day simulation lab at UIHC. An exam is required from assigned readings, online exercises, and simulation labs. Students must also complete a systems base practice project.

FACULTY: *Drs. Jim Cummings, Medical Director;*
(jcummings@broadlawns.org)
C. Coppola, R. Coppola, Danley, Junge, Petersen,
S. Johnson, and Van Zee

MAX ENROLLMENT: *1*

OFFERED: *All periods, except block 1*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kelly Norton*

REPORT TO: *LuAnn Vondracek, 515-282-2581*
(lvondracek@broadlawns.org)

SPECIAL CONDITIONS: *Housing provided*

PREREQUISITES: *Completion of M3 core clerkships in Surgery,*
Pediatrics and either Internal Medicine or APM.

184:425 EMERGENCY DEPARTMENT ROTATION, COVENANT, WATERLOO

OBJECTIVES: **The student will:** 1) increase his/her ability in assessment of patients with common emergencies; 2) increase his/her ability in management of acute illnesses; and 3) learn the components of the emergency medical service systems.

This will be achieved through: 1) participation in the care of patients seen in the Emergency Department and Outpatient areas of Covenant Medical Center; and 2) attendance at teaching conferences and seminars.

Approximately 27,000 patients are seen in this facility either by full-time Emergency Department physicians or private physicians. A panel of full-time Emergency Department physicians provides 24-hour-a-day coverage. A supervising physician is always present, and the student is assigned to him/her.

Major and minor trauma and medical and surgical emergencies account for 15% of the patients seen. The remainder of the patients are seeking ambulatory care for a variety of health problems.

The largest volume of patients is usually seen in this facility during the late afternoon and evening hours and on weekends. The student's hours will be adjusted to provide a balanced exposure to the variable patient load.

The student will be expected to attend all appropriate scheduled conferences within the Family Practice Center and appropriate inservice programs within the area hospitals. He/she will be invited as a guest to attend hospital staff meetings, County Medical Society meetings and continuing medical education programs as they occur.

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students are required to attend a 1 day simulation lab at UIHC. An exam is required from assigned readings, online exercises, and simulation labs. Students must also complete a systems based practice project.

FACULTY: *Drs. Ruffcorn, Markham, McCoughey, Miller,
Lawrence, Root, Singer, van Tonder, and Family
Practice Center faculty and residents
Course Director: Geoff Miller, M.D.
email gmiller@neimef.org*

MAX ENROLLMENT: *1*

OFFERED: *All periods, except block 1*

LENGTH OF ELECTIVE: *4 weeks*

ADMINISTRATIVE CONTACT: *Kelly Norton*

REPORT TO: *Wendy Hudson, Educational Coordinator,
319-272-2855 or 1-800-211-9283
(whudson@neimef.org)*

*Northeast Iowa Medical Education Foundation,
2055 Kimball Avenue, Waterloo, IA 50702*

SPECIAL CONDITIONS: *Single housing and meals will be provided within
the hospital. It is required that the student
have a car available.*

PREREQUISITES: *Completion of M3 year.*

184:430 EMERGENCY MEDICINE, SIOUX CITY

OBJECTIVES: **This student will:** 1) become familiar with the routine cross section of emergency problems cared for at Mercy Medical Center-Sioux City and/or St. Luke's Regional Medical Center; 2) become familiar, if desired, with the function of the ambulance crews.

This will be accomplished by: 1) work in the regional trauma center (Mercy Medical Center-Sioux City and/or the emergency room of St. Luke's Regional Medical Center); 2) accompanying the ambulance crews if desired.

The student, in conjunction with the Emergency Department Directors, will arrange their schedule. A combination of day, evening, and night shifts will be expected to maximize exposure to a wide range of problems. The student will be expected to be available every other weekend for duty. The student may work in one or both hospitals pending approval of the Emergency Department Director of each hospital. .

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students are required to attend a 1 day simulation lab at UIHC. An exam is required from assigned readings, online exercises, and simulation labs. Students must also complete a systems based practice project.

FACULTY: *Drs. Rosenkrans, Goebel and Liewer*
MAX ENROLLMENT: *1*
OFFERED: *All periods, except 1, 11, and 12*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *Kurt Rosendrans, M.D.*
Susan Leonard, 712-294-5018 Fax 712-294-5091
(s.leonard@slmef.org)
SPECIAL CONDITIONS: *Please contact Susan Leonard once assigned to this rotation to make arrangements.*
Housing may be available.
Student must have Basic Life Support Certification.
PREREQUISITES: *Completion of M3 core clerkships in Surgery, Pediatrics and either Internal Medicine or APM.*

184:998 EMERGENCY MEDICINE ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Kelly Norton*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*
PREREQUISITES: *Completion of M3 year.*

DEPARTMENT OF RADIATION ONCOLOGY

COURSE DIRECTOR: Dr. John Buatti

CONTACT PERSON: Shawn Reynolds
01626 PFPW
356-2699

186:202 RADIATION ONCOLOGY

OBJECTIVES: Students are involved directly with the patient care and management under the immediate supervision of the faculty. They rotate through all five clinical services:
1. Head and Neck Carcinoma, 2. Thoracic, 3. GI/GU/Metastases,
4. Lymphoma/CNS/Pediatric, 5. Gynecological/Breast/Sarcomas

Under the direction of the faculty, the students evaluate patients for radiotherapy and help plan the course of radiotherapy treatments. They also participate in the discussion regarding these patients in multidisciplinary tumor boards and departmental conferences. The students are exposed to a variety of neoplasms and attend the multidisciplinary conferences relating to their patients.

The goal of the course is to expose the student to the field of radiation oncology and cancer management, and give them an understanding of the interactions of radiation therapy, chemotherapy, and surgery.

FACULTY: *John Buatti, M.D.*

MAX ENROLLMENT: *3*

OFFERED: *All periods*

LENGTH OF ELECTIVE: *2 or 4 weeks*

ADMINISTRATIVE CONTACT: *Shawn Reynolds*

REPORT TO: *Dr. John Buatti, 01626 PFPW, 7:30 am*

PREREQUISITES: *Complete first semester of M3 year.*

186:998 RADIATION ONCOLOGY ON-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Shawn Reynolds*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

186:999 RADIATION ONCOLOGY OFF-CAMPUS

OBJECTIVES: Individually arranged by student with approval of the department.

FACULTY: *Arranged*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Shawn Reynolds*
REPORT TO: *Arranged*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

DEPARTMENT OF CARDIOTHORACIC SURGERY

COURSE DIRECTOR: Dr. Mark Iannettoni

CONTACT PERSON: Kim Horras
SE 500 GH
356-4518

193:232 SUB-INTERNSHIP IN CARDIOTHORACIC SURGERY

OBJECTIVES: **The student will** participate in the diagnosis, preoperative, operative, and postoperative care of thoracic and cardiac patients. He/she will attend all scheduled conferences of the Department. **The student will** assume responsibility and act as an intern. These students may concentrate their interest in either cardiac surgery or thoracic surgery. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and a faculty member.

FACULTY: *Dr. Iannettoni and Staff*
MAX ENROLLMENT: *1*
OFFERED: *All periods*
LENGTH OF ELECTIVE: *4 weeks*
ADMINISTRATIVE CONTACT: *Kim Horras*
REPORT TO: *Cardiothoracic Fellow, 7:00 am, 1st day.*

193:233 RESEARCH IN CARDIOTHORACIC SURGERY

OBJECTIVES: A short or long term research project will be arranged with the instructors. This may involve clinical material or laboratory. The student will organize and complete a project, finishing with a publishable manuscript.

FACULTY: *Dr. Iannettoni and Staff*
MAX ENROLLMENT: *Arranged*
OFFERED: *Arranged*
LENGTH OF ELECTIVE: *4 weeks minimum*
ADMINISTRATIVE CONTACT: *Kim Horras*
SPECIAL CONDITIONS: *Individually arranged elective form must be submitted 4 weeks prior to beginning of rotation.*

COLLEGE OF PUBLIC HEALTH

COURSE DIRECTOR: Dr. Fred Gerr
S322 CPHB
335-4212

175:996 OCCUPATIONAL MEDICINE

OBJECTIVES: Occupational Medicine is a preventive medicine specialty which focuses on the relationships among the health of workers; the physical, chemical and social environments in the workplace; and the health effects of environmental exposures. The national need for more residency-trained occupational medicine physicians has been documented, and yet it is a specialty unknown to most medical students. After successful completion of at least 12 months of clinical education in a residency program accredited by the ACGME, residency training in this field includes two years of academic and clinical experiences. Practicing family medicine and internal medicine physicians are often asked to provide occupational medicine services to local industries and workers, although they have little training in occupational medicine. This elective in occupational medicine will introduce you to the field and provide an opportunity to evaluate patients and workers at hospital and community-based occupational medicine clinics and participate at industrial sites supervised by experienced occupational medicine physicians. You can also work with industrial hygienists and ergonomic specialists who work with physicians to prevent diseases and injuries by correcting workplace hazards. If you are interested in a particular area of occupational medicine, we can arrange for you to focus on that topic during your month with us. The range of occupational medicine issues important for today's workers is very broad and includes agricultural diseases and injuries, indoor air quality, stress in the workplace, low back pain, musculoskeletal disorders of the upper extremities, impairment evaluations, occupational asthma, pesticide poisonings, reproductive hazards in the workplace, the effects on family members of toxins "carried home" from the workplace, protecting younger and aging workers, government regulatory and policy issues, and many other topics.