| **ELECTIVE TITLE** | MEDICAL EDUCATION (3rd YEAR)  
(PRE-REQUISITE: ONE CLERKSHIP, ANY SPECIALTY) | **COURSE NUMBER** | MDC 9908 |
<table>
<thead>
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<tbody>
<tr>
<td><strong>LOCATION</strong></td>
<td>COOPER UNIVERSITY HOSPITAL</td>
<td><strong>CONTACT PHONE</strong></td>
<td>856-757-7859</td>
</tr>
</tbody>
</table>
| **ELECTIVE DIRECTOR** | ROBERT RISIMINI, M.D.  
**ELECTIVE FACULTY** | ROBERT RISIMINI, M.D.  
**ELECTIVE CONTACT** | NANCY BOWERS |
| **BLOCKS AVAILABLE** | 1,2,3,6,7,8,9,10,11  
**DURATION/WEEKS** | MIN 2 MAX 4  
**HOURS PER WEEK** | 45  
**STUDENTS** | MAX 1 |
| **LECTURES/SEMINARS** | YES  
**OUTPATIENT** | NO  
**INPATIENT** | NO  
**HOUSESTAFF** | NO |
| **NIGHT CALL** | NO  
**WEEKENDS** | NO  
**LAB** | YES  
**EXAM REQUIRED** | NO |

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
Develop a medical education instructional and/or evaluation unit utilizing interactive video and/or computer-based instruction tools; apply principles of instructional design and evaluation to problem-solving exercises; evaluate literature relevant to development of the medical education learning/evaluation unit.

**BRIEF DESCRIPTION OF ACTIVITIES**
Students will develop a medical education instructional and/or evaluation unit, or participate in an ongoing project, for inclusion in the required M-3 or M-4 curriculum. Subject matter specialists will advise students with respect to development and evaluation of the instructional/evaluation unit prepared. Conference and small group tutorial sessions will be correlated with systematic development of the unit. Attention will be given to common medical instruction and evaluation of problems in clinical science teaching and evaluation. Emphasis will be placed on integrating video resources, computer-based tools, and world wide web resources with intelligent tutoring systems and clinical skills assessment techniques. Learning resources will include written simulations, conference exercises, faculty development library resources and collections of U.S. medical education materials, individualized instructional materials and computer-based tutorials in medical education instruction and evaluation.

**METHOD OF EVALUATION**
Assessment of student performance will be based on peer-review of the learning/evaluation unit developed and performance in problem-solving and simulation exercises.
OBJECTIVES
1. Use literature (short stories, poetry, novels, and essays) as a means to understand the experiences of being a patient, a family member of a patient, and a physician.
2. Use literature as a way to reflect on our own experiences as physicians.
3. Develop an appreciation of the patient as a storyteller, and use a patient’s story as a means to improve the care we give patients.
4. Learn to use literature as a respite from our daily work.

BRIEF DESCRIPTION OF ACTIVITIES
The course will meet as a 2 hour seminar, on eight occasions. Students will be expected to arrive prepared—having read required reading, and willing to actively reflect on the reading in seminar format. Reading will consist of poetry, essays, short stories, novels, and excerpts from all of the above. We will discuss themes such as suffering, barriers to good health care, intimacy, and making sense of illness. Readings will come from a variety of sources including the third edition of On Doctoring. Some readings will be made available via electronic reserve at the UMDNJ library and students will be required to buy or borrow two or three books. Students may also make recommendations for readings to the group.

METHOD OF STUDENT EVALUATION
Attendance of at least 7 of the seminars, and active participation, is required to pass this pass/fail course.
## Elective Title

**Anesthesia (3rd Year)**

(Pre-Requisites: Surgery or Medicine)

### Course Number

ANES 9000

### Location

Cooper University Hospital

<table>
<thead>
<tr>
<th>Elective Director</th>
<th>Elective Faculty</th>
<th>Elective Contact</th>
<th>Contact Phone</th>
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</thead>
<tbody>
<tr>
<td>Keyur Trivedi, M.D.</td>
<td>Department of Anesthesia</td>
<td>Evelyn Rodriguez</td>
<td>856-342-2425</td>
</tr>
<tr>
<td>@cooperhealth.edu</td>
<td></td>
<td>856-968-7334</td>
<td><a href="mailto:Trivedi-Keyur@cooperhealth.edu">Trivedi-Keyur@cooperhealth.edu</a></td>
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<th>Blocks Available</th>
<th>Duration/Weeks</th>
<th>Hours per Week</th>
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<th>Lectures/Seminars</th>
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<th>Inpatient</th>
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<th>Night Call</th>
<th>Weekends</th>
<th>Lab</th>
<th>Exam Required</th>
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<tr>
<td>All</td>
<td>2 Weeks</td>
<td>40-45</td>
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<td>Yes</td>
<td>Optional</td>
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<td>Yes</td>
<td>Optional</td>
<td>No</td>
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### Objectives

- To obtain basic anesthesia knowledge, especially applicable to other fields. These include: airway management; preoperative evaluation; postoperative management; perioperative medications; regional anesthesia; pain management principles; fluid, electrolyte, and transfusion management; evaluation and treatment of common perioperative complications.
- To acquire basic technical skills frequently used in anesthesia. These include: placement of intravenous catheters; airway management; use of intraoperative monitors.
- To develop cognitive skills appropriate to anesthesia and surgery. The student will begin to develop skills in anesthesia planning, including decisions about preoperative, intraoperative, and postoperative care, iv access, and appropriate monitoring.
- To gain exposure to subspecialty areas of anesthesia (4 week rotation). These include obstetric, cardiac, neurosurgical, pediatric, regional, ambulatory anesthesia and chronic pain management.

### Brief Description of Activities

The student will spend the majority of the time at the main operating room suite at Cooper University Hospital. The student will be assigned to cases on a daily basis. He/she will work with an anesthesiologist and a nurse anesthetist or resident. Appropriate teaching to meet the above objectives will be the focus. The student will receive training using the Sim-man virtual patient training to review various perioperative scenarios.

### Method of Student Evaluation

The student will be evaluated by the CRNAs, anesthesia residents, and anesthesiologists with whom he/she works.
**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
To provide the student with an advanced experience in primary care medicine - including longitudinal patient care, office management and the practice of medicine in the current medical-social-political milieu.

**OBJECTIVES**
- Provide comprehensive assessments for common acute, chronic and undifferentiated presentations seen by the family physician.
- Develop comprehensive longitudinal integrated management plans.
- Perform interviews and physical exams utilizing enhanced communication skills.
- Provide focused case presentations and clear, informative medical record documentation.
- Provide appropriate preventive care to patients utilizing screening tools and health maintenance protocols.
- Demonstrate proficiency in counseling techniques to promote behavioral change.
- Research and integrate evidence-based information in preventive care and disease management.
- Integrate factors related to family, culture, economics and ethics into management strategies.

**BRIEF DESCRIPTION OF ACTIVITIES**
Outpatient ambulatory care of undifferentiated patients. Exposure to office management issues (i.e. managed care, referrals, government insurance, staffing). The student will follow the preceptor through all daily activities, including rounds, meetings, CME activities and all patient related activities.

**METHOD OF STUDENT EVALUATION**
Performance will be assessed based on the student’s: level of participation in patient care, clinical competency, degree of improvement during course, and participation in clinical conferences.
**ELECTIVE TITLE**
ALTERNATIVE & COMPLEMENTARY MEDICINE (3rd YEAR)

**COURSE NUMBER**
FMED 9080

**LOCATION**
COOPER UNIVERSITY HOSPITAL

<table>
<thead>
<tr>
<th>ELECTIVE DIRECTOR</th>
<th>Elective Faculty</th>
<th>ELECTIVE CONTACT</th>
<th>CONTACT PHONE</th>
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<tbody>
<tr>
<td>M. KYU CHUNG, M.D.</td>
<td>M. KYU CHUNG, M.D., ET AL.</td>
<td>JANELE KRZYWICKI</td>
<td>856-757-7790</td>
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<th>BLOCKS AVAILABLE</th>
<th>DURATION/WEEKS</th>
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<th>STUDENTS</th>
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<tr>
<td>ALL</td>
<td>MIN 2, MAX 2</td>
<td>20 – 40</td>
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<th>INPATIENT</th>
<th>HOUSESTAFF</th>
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<th>NIGHT CALL</th>
<th>WEEKENDS</th>
<th>LAB</th>
<th>EXAM REQUIRED</th>
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**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
To obtain a better understanding of different forms of complementary medicine available in the community and how these forms of medicine are integrated into the patient’s total health care and well-being

**OBJECTIVES**
To familiarize the student with:
- Medical Accupuncture
- Functional Medicine, Nutritional Therapies
- Chiropractic care

**BRIEF DESCRIPTION OF ACTIVITIES**
Visit with several different providers of complementary medicine and see patients with them. Gain base knowledge of the techniques, uses, costs and effectiveness of different forms of complementary medicine. Student will create his/her own schedule working with any or all of the following providers:

M. Kyu Chung, M.D. (Mooresstown)
William Bromley, D.O. (West Collingswood)
Allan Magaziner, D.O. (Cherry Hill)
Andrew Oswari, M.D. (Mooresstown)

**METHOD OF STUDENT EVALUATION**
- Observation of the student
- End of rotation group discussion of what was learned
- Use of student evaluation form.
## Elective Title
**Internal Medicine Subinternship**

*(3rd Year)*

*(Pre-Requisites: Medicine, Surgery, Family Medicine)*

### Course Number
MED 8990

### Location
Cooper University Hospital

### Elective Director
Eric Kupersmith, M.D.

### Elective Faculty
Division of Internal Medicine

### Elective Contact
Safa Preston

### Contact Phone
856-757-7903

### Blocks Available
All

### Duration/Weeks
Min 2 Max 4

### Hours per Week
60

### Students
Max 1

### Lectures/Seminars
Yes

### Outpatient
No

### Inpatient
Yes

### Housestaff
Yes

### Night Call
Yes

### Weekends
Yes

### Lab
No

### Exam Required
No

### Overall Educational Goal of Elective

**Objectives**
To allow the student to experience the role of an intern in Internal Medicine and to refine their history taking and physical exam skills while focusing on the development of a mature assessment and plan.

**Brief Description of Activities**
The student will be assigned to one of four medical services at Cooper or a service at the Regional Medical Center in Vineland. At Cooper they will be in the direct supervision of a 2nd or 3rd year resident and medical attending and be expected to care for 4-6 patients. Preferably there will not be an intern or 3rd year medical student sharing the same patient.

At Cooper one week is expected to be spent doing 5 days of night float from 8pm to 8am. This will be in lieu of doing a floor week. During the other weeks the Sub-Intern will be expected to attend 1 of 2 days on the weekend.

The Vineland experience is under the direct supervision of an academic hospitalist and the role is the same as at Cooper. The Vineland experience is more of a rural setting with state-of-the art medical technology in a hospital which finished its completion in August of 2004. In this environment the sub-intern will follow patients both in the ICU and on the floors. This sub rotation can be taken as a minimum of 2 weeks and in lieu of the night float week.

**Method of Student Evaluation**
The student is evaluated by his/her supervising resident and attending. Emphasis is placed on the student's conscientiousness, clinical skills, academic interest, humanism, and development of a plan.
**Elective Title**
CRITICAL CARE SUBINTERNSHIP
(3rd Year)
(PRE-REQUISITES: MEDICINE & SURGERY)

**Course Number**
MED 8991

**Location**
COOPER UNIVERSITY HOSPITAL

**Elective Director**
DAVID GERBER, D.O.

**Elective Faculty**
ALEX AXELRAD, M.D.
C. BEKES, M.D.
PHILLIP DELLINGER, M.D.
DAVID GERBER, D.O.
R. LOTANO, M.D.
ANTOINETTE SPEVETZ, M.D.
Stephen Trzeciak, M.D.
Sergio Zanotti, M.D.

**Elective Contact**
TARA SHONTZ

**Contact Phone**
856-968-7826

**Blocks Available**
ALL

**Duration/Weeks**
MIN 2  MAX 4

**Hours Per Week**
50

**Students**
MAX 1

**Lectures/Seminars**
YES

**Outpatient**
NO

**Inpatient**
YES

**Housestaff**
YES

**Night Call**
YES

**Weekends**
YES

**Lab**
NO

**Exam Required**
NO

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**

**Objectives**
- To enable the student to develop experience and knowledge in the management of critically ill patients with multi-system disease, and to develop a familiarity with the technological modalities available for such patient management.
- In addition, ethical issues in the management of such patients are addressed on a regular basis.

**Brief Description of Activities**

Students will serve as an integral part of the ICU team for the elective period. They will assume primary responsibility for patients admitted to the Intensive Care Unit, under the direct supervision of either the senior resident or critical care fellow. The subintern will participate in night coverage. This may be done by taking night call approximately every sixth night or by participating in the night float system for part of the elective period. Daily responsibilities will include a.m. pre-rounds on all assigned patients to assess their status, collect data, and formulate a plan, to be followed by formal attending rounds each morning. After rounds there will be a period to complete work and write daily notes, followed by a formal review of daily x-rays. Sign-out will take place on the mid to late afternoon. The subintern will have the opportunity to perform required procedures on the patients he or she is following. Teaching on this service takes place a variety of ways. Formal daily teaching rounds are held each morning with the intensivist and critical care fellows. In addition, each month there is a schedule of lectures by attendings and fellows directed at housestaff and students on the service, at which attendance is mandatory. There is also a series of twice weekly Critical Care Conferences for members of the Division, at which house staff and student attendance is encouraged. Unscheduled lectures prompted by interesting cases and student presentations complete the didactic aspects of this rotation.

**Method of Student Evaluation**
A subjective evaluation prepared by ICU Attending with input from ICU Fellows and Residents who have worked with the medical student during the rotation. Students will be evaluated in the following areas:
- Basic knowledge, and acquisition of new information.
- Participation during rounds, includes preparedness for presentation of patients and follow up on patient issues for sign out rounds; interest and participation in discussions during rounds.
• Participation in core lecture series of critical care topics.
<table>
<thead>
<tr>
<th>ELECTIVE TITLE</th>
<th>ENDOCRINOLOGY AND METABOLISM (3rd YEAR) (PRE-REQUISITE: MEDICINE)</th>
<th>COURSE NUMBER</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td></td>
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<td>MED 9070</td>
<td>COOPER UNIVERSITY HOSPITAL</td>
</tr>
<tr>
<td>ELECTIVE DIRECTOR</td>
<td>GHADA HADDAD, MD</td>
<td>ELECTIVE FACULTY</td>
<td>GHADA HADDAD, M.D. VESNA MIHAJLOVIC, M.D. EDWARD SWIBINSKI, M.D. STEVEN KAUFMAN, M.D.</td>
</tr>
<tr>
<td>BLOCKS AVAILABLE</td>
<td>ALL</td>
<td>DURATION/WEEKS</td>
<td>MIN 2 MAX 4</td>
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<td>LECTURES/SEMINARS</td>
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<td>OUTPATIENT</td>
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<td>NIGHT CALL</td>
<td>NO</td>
<td>WEEKENDS</td>
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**OBJECTIVES**
To give the student an introductory exposure to the subspecialty of endocrinology and metabolism.

**BRIEF DESCRIPTION OF ACTIVITIES**
Supervise diagnostic work-up of patients with endocrinologic disorders seen in the hospital or private offices in Cherry Hill. Emphasis will be on private office, since most endocrinology is an outpatient subspecialty. Exposure to endocrine conferences at Cooper Hospital/University Medical Center. Each student should come either prepared or, during the course of the rotation in endocrinology, should become familiar with endocrinology as described in Harrison’s Textbook of Internal Medicine.

**METHOD OF STUDENT EVALUATION**
By faculty members’ direct observation of the student’s work.
### Elective Title

**Hematology/Oncology (3rd Year)**

<table>
<thead>
<tr>
<th>Elective Director</th>
<th>Elective Faculty</th>
<th>Elective Contact</th>
<th>Contact Phone</th>
</tr>
</thead>
</table>
| Alexandre Hageboutros, M.D. | Linda Devereux, M.D.  
Generosa Grana, M.D.  
Alex Hageboutros, M.D.  
Robert Somer, M.D.  
Neil Lachant, M.D. | Maria Gargano | 856-325-6715 |

<table>
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<tr>
<th>Blocks Available</th>
<th>Duration/Weeks</th>
<th>Hours per Week</th>
<th>Students</th>
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<th>Night Call</th>
<th>Weekends</th>
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<td>No</td>
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**Objectives**

- The student will develop skills of diagnosing, staging and treating both solid and hematologic malignancies by active evaluation of patients on the inpatient subspecialty service, consultation service, and in the private office setting.
- The student should gain an understanding of the basic principle of chemotherapy, specifically the common regimens, their toxicities, and the prevention, diagnosis and management of those toxicities.

**Brief Description of Activities**

An understanding of the natural history of the various malignancies will be acquired through reading, discussion with the attending and participation in several weekly oncology conferences as well as the teaching rounds on the inpatient service. The student will develop a rational approach to the evaluation and management of hematologic abnormalities. Development of basic skills in interpreting peripheral blood smears and bone marrow aspirations will result from review sessions with the attending.

**Method of Student Evaluation**

Faculty members' direct observation of the student's presentations, discussions, and progress during blood and bone marrow morphology conferences.
**ELECTIVE TITLE**  
**INFECTIOUS DISEASES-CONSULTATION (3rd YEAR)**  
*(PRE-REQUISITE: MEDICINE)*

<table>
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<th>COURSE NUMBER</th>
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<tbody>
<tr>
<td>MED 9150</td>
<td>COOPER UNIVERSITY HOSPITAL</td>
</tr>
</tbody>
</table>

**ELECTIVE DIRECTOR**  
DANIEL MEYER, M.D.

**ELECTIVE FACULTY**  
Pola de la Torre, M.D.  
JOHN BAXTER, M.D.  
DANIEL MEYER, M.D.  
HENRY FRAIMOW, M.D.  
ANNETTE REBOLI, M.D.

**ELECTIVE CONTACT**  
DEANNE CONNERS

**CONTACT PHONE**  
856-757-7767

**BLOCKS AVAILABLE**  
ALL

**DURATION/WEEKS**  
MIN 2 MAX 4

**HOURS PER WEEK**  
40

**STUDENTS**  
MAX 1

**LECTURES/SEMINARS**  
YES

**OUTPATIENT**  
YES

**INPATIENT**  
YES

**HOUSESTAFF**  
YES

**NIGHT CALL**  
NO

**WEEKENDS**  
NO

**LAB**  
NO

**EXAM REQUIRED**  
NO

**OBJECTIVES**
- Understanding of the pathophysiology of fever, basic and opportunistic infectious diseases and community acquired versus nosocomial infection.
- Development of clinical skills which focus on the signs and symptoms of infections, their pathogenesis, diagnosis, complications, and management.
- Critical assessment of indications for antibiotic use and prophylaxis, spectrum of antibacterial activity, dosage regimes in routine and compromised patients and adverse effects.
- Ability to interpret gram stains, antibiotic sensitivity patterns and culture results.
- Familiarization with current literature where appropriate.
- Basic understanding of infection control and isolation precautions.

**BRIEF DESCRIPTION OF ACTIVITIES**
Some new patient consultations will initially be reviewed by the student, both historically and by physical examination. The student will be supervised by the fellow or resident on the consultation service. Case presentation to the attending will occur at rounds with discussion of differential diagnosis, management and follow-up. Rounds will occur daily with new case presentations and review/follow-up of all other patients, their laboratory data, culture results and procedures. Both students and housestaff will be encouraged to present topics to the group using current literature. One session per month can be spent in the outpatient Treatment Assessment HIV Program supervised by the assigned attending.

**METHOD OF STUDENT EVALUATION**
Based upon conscientiousness with regard to case presentation and follow-up. Evolution of understanding and interpretation of signs, symptoms and laboratory data pertinent to differential diagnosis. Participation in the above outlined activities. Coordination of textbook facts with current literature.
**Elective Title**  
**Nephrology and Hypertension**  
(3rd Year)  
(PRE-REQUISITE: Medicine)

<table>
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<th>Elective Title</th>
<th>Course Number</th>
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<tbody>
<tr>
<td>Nephrology and Hypertension</td>
<td>MED 9170</td>
<td>Cooper University Hospital</td>
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<th>Elective Faculty</th>
<th>Elective Contact</th>
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<tbody>
<tr>
<td>Lawrence Weisberg, M.D.</td>
<td>Richard Kasama, M.D., Chris McFadden, M.D., Seema Sikand, M.D., William Sirover, M.D., Wamiq Sultan, M.D., Lawrence Weisberg, M.D., Ron Zanger, M.D.</td>
<td>L. Weisberg, M.D.</td>
<td>856-757-7844</td>
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**Objectives**
- Learn to evaluate and manage patients with disorders of fluid, electrolyte and acid-base homeostasis
- Learn to evaluate and manage patients with acute renal failure
- Understand the approach to patients with hematuria or proteinuria
- Learn to evaluate and manage patients with chronic kidney disease
- Learn to evaluate and manage patients with hypertension
- Understand the principles behind, and the indications for, dialysis of various types

**Brief Description of Activities**
The student will see hospitalized patients in consultation and will follow them in continuity on the nephrology consultation service, under the supervision of the rotating resident, the nephrology fellow and the faculty nephrologist. He/She may attend the nephrology outpatient clinic once a week. The student must attend the various nephrology conferences (Clinical conference; Renal Grand Rounds; Basic Science conference; Research conference; Journal Club; Multidisciplinary Dialysis conference). Students will be expected review and discuss literature on clinical topics.

**Method of Student Evaluation**
Students will be evaluated on the quality of their written medical records (consultation report, progress notes), their oral case presentations, the quality of their literature review and their oral topic presentations. Emphasis will be given in growth in knowledge and clinical skills during the elective.
**ELECTIVE TITLE**
PULMONARY MEDICINE (3rd YEAR)

**COURSE NUMBER**
MED 9210

**LOCATION**
COOPER UNIVERSITY HOSPITAL

**ELECTIVE DIRECTOR**
RAMYA LOTANO, M.D.

**ELECTIVE FACULTY**
STEVEN AKERS, M.D.
JONATHAN KASS, M.D.
MELVIN PRATTER, M.D.
RAMYA LOTANO, M.D.

**ELECTIVE CONTACT**
NANCY FOGLIA

**CONTACT PHONE**
856-342-2406

**BLOCKS AVAILABLE**
ALL

**DURATION/WEEKS**
MIN 2  MAX 4

**HOURS PER WEEK**
40

**STUDENTS**
MAX 1

**LECTURES/SEMINARS**
YES

**OUTPATIENT**
SOME

**INPATIENT**
YES

**HOUSESTAFF**
YES

**NIGHT CALL**
NO

**WEEKENDS**
NO

**LAB**
NO

**EXAM REQUIRED**
NO

**OBJECTIVES**

- A basic understanding of pulmonary pathophysiology.
- Treatment principles of common acute respiratory problems.

**BRIEF DESCRIPTION OF ACTIVITIES**
The student will be an active participant on the inpatient pulmonary consultation service. The student will see new consults on his/her own and under observation of fellow or attending, and then present them to the on-service pulmonary attending. In addition, the student will learn how diagnostic pulmonary function tests are done, when to order, and basics of interpretation. The student will participate in the pulmonary division case presentation conferences, in which interesting and/or difficult patient management problems from both the outpatient setting and the inpatient consult service will be presented to all the pulmonary attendings for discussion. As part of the elective, the student will also learn the fundamentals of how to interpret plain chest x-rays as well as chest computerized tomography (CAT scans) and nuclear medicine lung scans.

**METHOD OF STUDENT EVALUATION**
Daily observation on rounds. Based on the student's motivation, the quality of patient work-ups and case presentation. Also on the mastery of assigned readings and the ability to apply it to clinical situations.
**ELECTIVE TITLE**
**RHEUMATOLOGY (3rd YEAR)**
(PRE-REQUISITE: MEDICINE)

**COURSE NUMBER**
MED 9240

**LOCATION**
COOPER UNIVERSITY HOSPITAL

<table>
<thead>
<tr>
<th>ELECTIVE DIRECTOR</th>
<th>ELECTIVE FACULTY</th>
<th>ELECTIVE CONTACT</th>
<th>CONTACT PHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERALD FALASCA, M.D.</td>
<td>GERALD FALASCA, M.D. HALA EID, M.D.</td>
<td>GERALD FALASCA, M.D.</td>
<td>856-757-9671</td>
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<th>BLOCKS AVAILABLE</th>
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<td>NO</td>
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**OBJECTIVES**
- To teach the basics of clinical rheumatology and the physiology of common disorders of the musculoskeletal system. Main emphasis is on history, physical examination, differential diagnosis and management of patients with articular and non-articular rheumatism, as well as metabolic bone diseases.
- Activities include outpatient care, rounds on inpatients, consultation service, arthrocentesis, synovial fluid analysis, interpretation of joint and bone x-rays, scintigrams and those biochemical and serological tests in use for differential diagnosis of common rheumatic diseases.

**BRIEF DESCRIPTION OF ACTIVITIES**
Responsibilities for the fourth year elective include: Outpatient care and arthritis consultation; the student will do history and physicals on new patients. The patients will be presented and discussed with one of the attendings, and then followed through their next hospital visits or hospital course. Students will perform arthrocentesis and synovial fluid analysis, and they will be instructed in the use of polarized light microscopy for crystal identification. The student will also learn to read bone and joint x-rays and scintigrams, and be exposed to musculoskeletal ultrasound as a rheumatology tool.

**METHOD OF STUDENT EVALUATION**
The students will be given an practical examination.
ELECTIVE TITLE
UROGYNECOLOGY (3rd Year)
(PRE-REQUISITES: MEDICINE, OB/GYN & SURGERY)

COURSE NUMBER
OBG 9031

LOCATION
COOPER-VOORHEES Cooper University Hospital

ELECTIVE DIRECTOR
ADAM HOLZBERG, D.O.

ELECTIVE FACULTY
RICARDO CARABALLO, M.D.
JOSEPH MACCARONE, M.D.

ELECTIVE CONTACT
DAWN MAZIARZ

CONTACT PHONE
856-342-3006
FAX: 856-365-1967

BLOCKS AVAILABLE
ALL

DURATION/WEEKS
MIN 2 MAX 4

STUDENTS
MAX 1

HOURS PER WEEK
40

LECTURES/SEMINARS
YES

OUTPATIENT
YES

INPATIENT
YES

HOUSESTAFF
YES

NIGHT CALL
NO

WEKENDS
NO

LAB
NO

EXAM REQUIRED
NO

OVERALL EDUCATIONAL GOAL OF ELECTIVE
Familiarity with office gynecology and urogynecology will be obtained by the end of the rotation.

OBJECTIVES
Students will observe the evaluation of patients from their initial office visit through urodynamics and endoscopic testing and final management.

BRIEF DESCRIPTION OF ACTIVITIES
The student will observe the working of a private office based practice, as well as Cooper Women’s Care Center, including initial evaluations, urodynanmic testing, surgical and non-surgical treatments. The student will assist in the operating rooms.

METHOD OF STUDENT EVALUATION
There is no written requirement. Evaluations will be based on daily discussions and overall preparedness for clinics, operative cases and office hours.
**ELECTIVE TITLE**

**GYNECOLOGIC CANCER RESEARCH (3rd YEAR)**

**(PRE-REQUISITE: OB/GYN)**

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<th>CONTACT PHONE</th>
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</thead>
<tbody>
<tr>
<td>JAMES AIKINS, M.D., RONALD JAFFE, M.D.</td>
<td>JAMES AIKINS, M.D.</td>
<td>DAWN MAZIARZ</td>
<td>856-342-3006</td>
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</table>

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**

To expose the student to the basic and clinical aspects of research on the subject of pregnancy and gynecologic cancer.

**OBJECTIVES**

- To familiarize the student with laboratory investigation including running of assays as well as data evaluation using statistical methods.
- Students who are interested will be able to develop a longer term plan which they will be able to pursue after ending their elective, leading to publications in professional journals.

**BRIEF DESCRIPTION OF ACTIVITIES**

The student will conduct specifics, design and execution of ongoing research projects ongoing in the laboratory. Currently the lab conducts investigation on metabolism of normal and pathological placenta, hormonal regulation of placental function, specifically hCG and sex steroids. In the field of gynecologic oncology, the student will be involved in methods for assessing invasion of gyn tumors, monitoring of cell proliferation with advanced techniques following exposure to various testing agents and creating a data bank and systemic evaluation of gynecologic tumor tissue for the biomarkers and the effect of chemotherapeutic agents on them.

**METHOD OF STUDENT EVALUATION**

There is no written requirement. Evaluations will be based on daily discussions and overall preparedness for clinics, operative cases and office hours.
<table>
<thead>
<tr>
<th>Elective Title</th>
<th>Course Number</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Clinical Reproductive Endocrinology/Infertility (3rd Year) (Pre-requisites: Medicine &amp; OB/GYN)</td>
<td>OBG 9080</td>
<td>Cooper Institute for Repro Hormonal Disorders, Marlton, NJ</td>
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<tr>
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<th>Elective Faculty</th>
<th>Elective Contact</th>
<th>Contact Phone</th>
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<tbody>
<tr>
<td>Jerome Check, M.D., Ph.D</td>
<td>Jerome Check, M.D., Ph.D</td>
<td>Samuel Jacobs, M.D.</td>
<td>Dawn Maziarz</td>
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**Overall Educational Goal of Elective**
To develop the ability to obtain and analyze clinical information as it is related to reproductive endocrinology.

**Objectives**
- To gain experience in diagnostic and historical modalities in patients with reproductive endocrinopathies and infertility.
- To appreciate the application of basic endocrinology principles in health and diseases of the reproductive system.
- The student will divide his time between attending didactic lectures in reproductive endocrinology, outpatient experience in the Cooper Center for Reproductive Endocrinology and Infertility and the reproductive endocrine infertility clinic in Cooper Hospital, experience in the Cooper Institute for In Vitro Fertilization.
- Also the student will attend laparoscopic and microsurgical procedures in both outpatient and inpatient facilities and will also spend time in andrology laboratory.
- If interested, the student is welcome to participate in ongoing reproductive endocrinology research.

**Brief Description of Activities**
Evaluation is based on clinical performance and comprehension of subject matter.

**Method of Student Evaluation**
Clinical performance will be the major determinant of the student's evaluation. An oral presentation in a topic in Maternal/Fetal Medicine is also required.
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<th>COURSE NUMBER</th>
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<tr>
<td>OPHTHALMOLOGY (3rd Year)</td>
<td>OPHT 9090</td>
<td>COOPER UNIVERSITY HOSPITAL</td>
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<th>ELECTIVE CONTACT</th>
<th>CONTACT PHONE</th>
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</table>
| BRUCE J. MARKOVITZ, M.D. | BARRY WASSERMAN, M.D.  
CHRISTOPHER OLIVIA, M.D.  
DAVID RHO, M.D.  
BRUCE SCHNALL, M.D. | DAWN HABERLE | 856-342-7200 |

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**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
Teaching the basics of clinical and surgical ophthalmology

**OBJECTIVES**
- During this elective, the fundamentals of eye examination techniques and instrumentation, including vision taking, external examination, muscle balance testing, intraocular pressure evaluation, and fundus evaluation methodology are taught.
- Emphasis is on the diagnosis and recognition of ophthalmic manifestations of systemic disease as well as the treatment of the more common types of eye problems.

**BRIEF DESCRIPTION OF ACTIVITIES**
There is opportunity for direct contact with ophthalmology patients in an outpatient setting. The student learns which type of patient can be treated without referral to an ophthalmologist and when referral is necessary. Observation of outpatient eye surgery is available to interested students. The pre and post-operative management of eye patients is also available. In addition, there also is an opportunity to observe and become familiar with specialized testing such as ultrasonography, fluorescein angiography and computerized visual fields.

**METHOD OF STUDENT EVALUATION**
The student is evaluated by each staff member, with a composite evaluation prepared by the head of the division.
### Elective Title
**Orthopaedic Surgery (3rd Year)**
*(Pre-Requisite: OR Orientation)*

<table>
<thead>
<tr>
<th><strong>Elective Number</strong></th>
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<tbody>
<tr>
<td>ORSG 9110</td>
<td>Cooper University Hospital</td>
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<th><strong>Elective Director</strong></th>
<th><strong>Elective Contact</strong></th>
<th><strong>Contact Phone</strong></th>
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<tbody>
<tr>
<td>Lawrence Miller, M.D.</td>
<td>Lee Rayser</td>
<td>856-963-3985</td>
</tr>
<tr>
<td>Eric Hume, M.D.</td>
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### Overall Educational Goal of Elective
To permit the student to participate in clinical and applied Orthopaedic Surgery, with a variety of experience in the care of fractures, reconstructive orthopaedic surgery, arthritis and pediatric orthopaedic surgery. The student will help in the reduction of fractures and surgery.

### Objectives
The student will be included in the care of patients in an outpatient and inpatient setting.

### Brief Description of Activities
The student's time will be divided between the operating room and office.

### Method of Student Evaluation
Each member of the Department of Orthopaedic Surgery will be asked to individually assess each student. A composite evaluation will then be rendered by the Chief of the Department of Orthopaedic Surgery.
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<tr>
<th>Elective Title</th>
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<tbody>
<tr>
<td>Pediatric Subinternship (3rd Year)</td>
<td>PEDS 8990</td>
<td>Cooper University Hospital</td>
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<tbody>
<tr>
<td>William Graessle, M.D.</td>
<td>A. Douglass-Bright, M.D. W. Graessle, M.D. Renu Doshi, M.D. Beth Karmilovich, D.O.</td>
<td>Ramonita Ortiz</td>
<td>856-757-7813</td>
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<th>Housestaff</th>
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**Overall Educational Goal of Elective**
To develop skills in handling common pediatric illnesses as they relate to the inpatient unit.

**Objectives**
- This elective has been designed to provide the 4th year medical student with the opportunity to function as an intern under faculty/resident supervision.
- The student will learn to assess and work-up patients, following the patients through their hospitalization.
- The student will present patients at daily rounds and at sign-in and sign-out rounds.
- In addition, the student will have the opportunity to perform supervised basic procedures on patients under his/her care.

**Brief Description of Activities**
The student will report to the pediatric inpatient unit daily. Under faculty and resident supervision, the student will participate in the care of assigned patients and interact with their families accordingly. The student will perform all necessary tasks involved in deciphering the reason for the patient's admission, generate an appropriate differential diagnosis, and develop a pragmatic management plan under faculty and resident supervision.

**Method of Student Evaluation**
The student will be evaluated by both inpatient faculty and supervisory residents. The evaluation will include quality of work-ups, patient care, and clinical performance. In addition, the student will be evaluated on initiative in the care of assigned patients, and knowledge/understanding of cases under the responsibility of the subintern.
**Elective Title**

**Pediatric Intensive Care Subinternship (3rd Year)**

*Pre-Requisites: Pediatrics & After Third Clerkship*

**Course Number**
Peds 8991

**Location**
Cooper University Hospital

**Elective Director**
Arsenia Asuncion, M.D.

**Elective Faculty**
Shonola DaSilva, MD
Arsenia Asuncion, MD
Ivona Sediva, MD

**Elective Contact**
Jennifer McIntyre

**Contact Phone**
856-968-9575

**Blocks Available**
Upon Request

**Duration/Weeks**
Min 2 Max 4

**Hours Per Week**
~40

**Students**
Max 1

**Lectures/Seminars**
Yes

**Outpatient**
No

**Inpatient**
Yes

**Housestaff**
Yes

**Night Call**
Yes

**Weekends**
Yes

**Lab**
No

**Exam Required**
No

**Overall Educational Goal of Elective**
To help the student develop critical thinking. To introduce the student to critical data management interpretation and response to physiologic data.

**Objectives**
- To introduce the student to critically ill patients.
- To help develop quick appropriate response to emergencies.
- To develop and foster critical thinking pathways with emphasis on the importance of ABC’s of resuscitation.

**Brief Description of Activities**
- Detailed history taking and physical examination of all new admissions.
- Direct participation in patient management.
- Discussion of a selected case presentation at the end of the rotation.

**Method of Student Evaluation**
Weekly one on one discussion between the student, the house staff and the service attending.
ELECTIVE TITLE
PEDIATRIC ALLERGY-IMMUNOLOGY
(3rd YEAR)

COURSE NUMBER
PEDS 9020

LOCATION
COOPER UNIVERSITY HOSPITAL

ELECTIVE DIRECTOR
MARIA LANIA-HOWARTH, M.D.

ELECTIVE FACULTY
MARIA LANIA-HOWARTH, M.D.
FAINA GUTIN, M.D.

ELECTIVE CONTACT
SECRETARY

CONTACT PHONE
856-342-2159

BLOCKS AVAILABLE
ALL

DURATION/WEEKS
MIN 4, MAX 4

HOURS PER WEEK
40

STUDENTS
MAX 1

LECTURES/SEMINARS
YES

OUTPATIENT
YES

INPATIENT
YES

HOUSESTAFF
NO

NIGHT CALL
NO

WEEKENDS
NO

LAB
NO

EXAM REQUIRED
NO

OVERALL EDUCATIONAL GOAL OF ELECTIVE
To develop familiarity with Asthma and other Allergic and Immunologic conditions.

OBJECTIVES
- The student will attain the ability to perform an examination appropriate for age; recognize the significance of the presence of Asthma/Allergic-Immunologic signs and symptoms and to plan an appropriate evaluation and generate a pragmatic differential diagnosis.
- The student will gain familiarity with Allergic-Immunologic testing of various kinds, understanding the principles and the clinical uses of each test.
- The student will become familiar with common Allergic-Immunologic problems in pediatrics: Asthma, Allergic Rhinitis, Contact Dermatitis, Drug Allergy, Eczema, Food Allergy, Immunodeficiency, Sinusitis, Urticaria, etc. In addition, the student will gain experience in the Allergy-Immunology clinics and in the in-patient unit, performing consultations as assigned.

BRIEF DESCRIPTION OF ACTIVITIES
The student will report to the Division of Pediatric Allergy-Immunology daily. Under faculty supervision, the student will participate in the care of assigned patients and interact with their families accordingly. The student will perform all necessary tasks involved in deciphering the reason for the patient’s visit/admission and formulate a differential diagnosis and pragmatic management plan under faculty supervision. The student will need to fulfill overall requirements of the 4th year Allergy-Immunology elective requirements.

METHOD OF STUDENT EVALUATION
The student’s evaluation will be based on clinical performance, attendance and overall participation. The student will be assessed and evaluated by the attending faculty. Overall evaluation will conform to the 4th year Allergy-Immunology elective requirement.
<table>
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<th>Elective Title</th>
<th>AMBULATORY PEDIATRICS (3rd Year)</th>
<th>Course Number</th>
<th>Peds 9030</th>
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<th>Cooper University Hospital</th>
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<tbody>
<tr>
<td>Elective Director</td>
<td>A. Douglass-Bright M.D.</td>
<td>Elective Faculty</td>
<td>A. Douglass-Bright, M.D. Renu Doshi, M.D. W. Graessle, M.D. B. Karmilovich, D.O. Erin Schnepp, D.O.</td>
<td>Elective Contact</td>
<td>Natanya Braswel</td>
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<tr>
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<td>Lab</td>
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**Overall Educational Goal of Elective**
To develop skills in handling common pediatric problems, i.e., otitis media, impetigo, diarrhea, etc.

**Objectives**
- This course will familiarize the student with current standards of health care maintenance for children and acquaint them with normal newborns.
- The student will become familiar with issues of parenting and family dynamics as well as gain experience in interviewing both the pediatric patient and their families.
- The student will gain an understanding of both the normal and abnormal developmental processes in the pediatric population.
- The student will become familiar with common pediatric illnesses presenting in the outpatient setting.

**Brief Description of Activities**
The student will report to the outpatient unit daily. Under the supervision of both faculty and housestaff, the student will greet assigned patients and their families. The student will perform all necessary tasks involved in the patient encounter including the history, physical and medical decision making.

**Method of Student Evaluation**
The student will be evaluated on the basis of overall participation, performance, ability to take a history, perform a physical exam, develop a differential diagnosis and develop a management plan.
## Elective Title
**Pediatric Cardiology (3rd Year)**

### Course Number
Peds 9040

### Location
Cooper University Hospital

### Elective Director
Marc Levine, M.D.

### Elective Faculty
Marc Levine, M.D.

### Elective Contact
Tanya Shorter

### Contact Phone
856-342-2561

### Blocks Available
Please call prior to scheduling

### Duration/Weeks
Min 2, Max 4

### Hours per Week
40

### Students
Max 1

### Lectures/Seminars
Yes

### Outpatient
Yes

### Inpatient
Yes

### Housestaff
No

### Night Call
No

### Weekends
No

### Lab
No

### Exam Required
No

---

### Overall Educational Goal of Elective
To develop skills in handling common pediatric cardiology problems.

### Objectives
- This course will familiarize the student with the care of children with congenital and acquired cardiac defects. Specifically, to develop in the student the ability to recognize cardiac problems, to become acquainted with the spectrum of pediatric heart disease, and to become knowledgeable about the management of the different lesions.
- The opportunity to become familiar with pediatric electrocardiography, echocardiography, exercise testing, and cardiac catheterization will be provided.

### Brief Description of Activities
The student will report to the Division of Pediatric Cardiology daily. Under the supervision of the pediatric cardiologists, the student will interact with patients and their families accordingly. The student will perform all necessary tasks involved with each patient’s visit as directed by the pediatric faculty. The rotation will involve outpatient clinic and inpatient care and consultation. Students are expected to do consultations in the hospital and be able to present and discuss patients.

### Method of Student Evaluation
The student will be evaluated on the basis of overall participation and performance as directed by the pediatric cardiologists.
### Elective Title
**Child Development Center (3rd Year)**

### Course Number
PEDS 9050

### Location
Cooper University Hospital

### Elective Director
**Barbara Marcelo Evans, M.D.**

### Elective Faculty
**Barbara Marcelo Evans, M.D.**

### Elective Contact
Auria Roman

### Contact Phone
856-342-2257

### Blocks Available
All but August and 12/20/08, 1/5/09

### Duration/Weeks
Min 4 Max 4

### Hours Per Week
40

### Students
Max 1

### Lectures/Seminars
Yes

### Outpatient
Yes

### Inpatient
No

### Housestaff
1

### Night Call
No

### Weekends
No

### Lab
No

### Exam Required
No

### Overall Educational Goal of Elective
To develop skills in handling common pediatric problems specifically related to child development and neuro-developmental disabilities.

### Objectives
- This course will introduce child development and neuro-developmental disabilities.
- The student will learn how to screen for and identify developmental problems as part of general pediatric care. In addition, the student will learn about pediatric surveillance for developmental disorders.
- The student will observe developmental specialists (i.e., neurodevelopmental pediatrician, psychologist, physical therapist, etc.) in their evaluation of developmental problems.
- The student will observe the multidisciplinary team approach to the evaluation of children with developmental problems.
- The student will gain experience in the medical care of children with neuro-developmental disorders. (ADHD, Autism, Learning Disabilities, CP/MR, etc.)

### Brief Description of Activities
The student will report to the Child Development Center daily. Under the supervision of the director, the student will greet assigned patients and their families. The student will also spend time with consultants from related services. The student will perform all necessary tasks involved in deciphering the reason for the patient's visit, evaluation, and treat the patient accordingly under faculty direction.

### Method of Student Evaluation
The student will be evaluated on the basis of overall participation, interaction with CDC team members and patients, performance, ability to take a history, perform a physical exam, develop a differential diagnosis and develop a management plan.
OVERALL EDUCATIONAL GOAL OF ELECTIVE
To develop skills in handling common pediatric endocrinology problems

OBJECTIVES
This course will teach the essentials for diagnosing and managing pediatric endocrine problems including: short stature, diabetes mellitus, delayed or precocious puberty, thyroid disorders and disorders of the regulation of antidiuretic hormone, calcium and phosphorous.

BRIEF DESCRIPTION OF ACTIVITIES
The student will report to the Division of Pediatric Endocrinology daily. The student will see all patients, many before the attendings, obtain a history, perform a physical exam and review the patient with one of the Pediatric Endocrinologists. Under his/her direction, the student will formulate a diagnostic and therapeutic plan. The student will attend the pediatric department and resident educational sessions along with the monthly joint meeting with the endocrinologists at Saint Peter’s Hospital in New Brunswick. The student will also be asked to review and briefly present an endocrine topic once per week.

METHOD OF STUDENT EVALUATION
The student will be evaluated on the basis of overall participation, performance, ability to take a history, perform a physical exam, develop a differential diagnosis and develop a management plan.
ELECTIVE TITLE
MEDICAL GENETICS/DYSMORPHOLOGY (3rd YEAR)

COURSE NUMBER
PEDS 9080

LOCATION
COOPER UNIVERSITY HOSPITAL

ELECTIVE DIRECTOR
RHONDA SCHNUR, M.D.

ELECTIVE FACULTY
RHONDA SCHNUR, M.D.

ELECTIVE CONTACT
LINDA COUGHLIN

CONTACT PHONE
856-968-7255

BLOCKS AVAILABLE
1, 2, 3, 5, 6, 7, 8, 9, 10

DURATION/WEEKS
MIN 4 MAX 4

HOURS PER WEEK
40

STUDENTS
MAX 1

LECTURES/SEMINARS
YES

OUTPATIENT
YES

INPATIENT
YES

HOUSESTAFF
VARIES

NIGHT CALL
No

WEEKENDS
No

LAB
No

EXAM REQUIRED
No

OVERALL EDUCATIONAL GOAL OF ELECTIVE
To develop familiarity with the recognition of genetic disease, the physical examination with respect to dysmorphology, the diagnosis and primary management of suspected inborn errors of metabolism, and the use of cytogenetic, biochemical, and molecular diagnostic tests in the evaluation of these patients.

OBJECTIVES
• Over the course of the elective, the student will develop the ability to recognize indications for a genetic evaluation, record a complete family pedigree, perform a detailed physical examination with respect to dysmorphology, recognize when an evaluation for an inborn error of metabolism is appropriate, which tests are most appropriate to order, how to manage acutely ill children with suspected inborn errors and utilize the newest available cytogenetic and molecular assays for patient evaluation.
• Under faculty supervision, the student will be an integral part of the consultative services provided by the division. By the end of the rotation, the student will generate consultative reports and counseling letters to families with whom they have been involved.
• The student will prepare one or two cases over the rotation for formal presentation at a departmental genetic or pediatric conference. It is also hoped that the student will identify at least one interesting case to be researched and prepared for publication in a genetics or other medical journal.

BRIEF DESCRIPTION OF ACTIVITIES
The student will report to the Division of Genetics daily with activities to include, 1) participating in 3 outpatient genetics clinics per week, 2) providing inpatient consultative services with Dr. Schnur, 3) attending all genetics and relevant pediatrics conferences, 4) utilizing relevant databases, books and journals to provide optimal, up to date patient care. Opportunities also exist for participating/observing prenatal genetic testing and counseling, and attending a cleft palate team clinic.

METHOD OF STUDENT EVALUATION
The student will be evaluated on the basis of overall ability to obtain a genetic history, perform a dysmorphology-based exam, and recognize and evaluate inborn errors of metabolism. They should also be able to generate relevant questions, research these, and interpret data related to their patients.
<table>
<thead>
<tr>
<th>Elective Title</th>
<th>Course Number</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Pediatric Infectious Diseases (3rd Year)</td>
<td>Peds 9100</td>
<td>Cooper University Hospital</td>
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</tbody>
</table>

**Pre-Requisite:** Completion of Pediatric Clerkship

**Elective Director:** Anat Feingold, M.D.

**Elective Faculty:** Anat Feingold, M.D. 
Debrah Meischl, M.D.

**Elective Contact:** Diane Pestridge

**Contact Phone:** 856-342-2617

**Blocks Available:**
MUST CALL PRIOR TO SCHEDULING
(Feingold-Anat@cooperhealth.edu)
OR Meischl-Debra@cooperhealth.edu

**Duration/Weeks:**
MIN 2 MAX 4

**Hours per Week:**
40

**Students:**
MAX 1

**Lectures/Seminars:**
Yes

**Outpatient:**
Yes

**Inpatient:**
Yes

**Housestaff:**
Yes

**Night Call:**
No

**Weekends:**
No

**Lab:**
Yes

**Exam Required:**
No

**Overall Educational goal of Elective**
To give the student a general understanding of common infectious diseases, use of antibiotics and preventive programs.

**Objectives**
- To have students work with patients and supplement experience with didactic discussions.
- To have students understand basic approach to diagnosis and management of pediatric infections.
- To have students understand the overall approach to prevention of infectious diseases.

**Brief Description of Activities**
Student will work in HIV program; take consultations on the inpatient service and present assigned readings.

**Method of Evaluation**
Will meet with students periodically to review progress.
ELECTIVE TITLE
NEONATOLOGY (3rd YEAR)
(PRE-REQUISITES: PEDIATRICS & AFTER THIRD CLERKSHIP)

COURSE NUMBER
PEDS 9110

LOCATION
COOPER UNIVERSITY HOSPITAL

ELECTIVE DIRECTOR
GARY STAHL, M.D.

ELECTIVE FACULTY
GARY STAHL, M.D.
SONIA IMAIZUMI, M.D.
ZUBAIR AGHAI, M.D.
NOSRAT RAZI, M.D.
JUDY SASLOW, M.D.
GRETCHEN LAWHON, RN, PH.D.

ELECTIVE CONTACT
MARY MONDATSOS

CONTACT PHONE
856-342-2265

BLOCKS AVAILABLE
ALL

DURATION/WEEKS
MIN 4  MAX 4

HOURS PER WEEK
40+

STUDENTS
MAX 1

LECTURES/SEMINARS
YES

OUTPATIENT
OPTIONAL

INPATIENT
YES

HOUSESTAFF
YES

NIGHT CALL
YES

WEEKENDS
NO

LAB
NO

EXAM REQUIRED
NO

OVERALL EDUCATIONAL GOAL OF ELECTIVE
To develop skills in handling common problems of acutely ill term and premature infants

OBJECTIVES
- This elective has been designed to meet the qualifications for the required subinternship and to provide a
good clinical and didactic experience for the fourth year student. He/she will be working closely with the
residents, staff and attending neonatologists.
- The goal will be to provide a broad base of experience with an emphasis on pathophysiology for the
student who desires to pursue a career in Pediatrics by providing experience with acutely ill premature and
full-term neonates.

BRIEF DESCRIPTION OF ACTIVITIES
The subintern will report to the Neonatal Intensive Care Unit of the Children’s Regional Hospital at Cooper Hospital
daily. Under faculty supervision, the subintern will assume primary responsibility for the care of assigned patients
and will interact with their families accordingly. The subintern will perform all necessary tasks involved in the
diagnosis and treatment of the assigned patients with one-on-one resident and faculty supervision. Attending
teaching rounds are held twice a day and the subintern will be expected to present his/her patient on rounds.
Opportunities will be available to gain experience in delivery room resuscitation and in performing basic procedures
under faculty supervision. The subintern will also be expected to research a clinical topic and make a brief (10
minute) presentation to the NICU team. Hours: 7:30 AM – 4:30 PM and one night call/week.

METHOD OF STUDENT EVALUATION
The subintern will be evaluated on his/her ability to assess common clinical situations in the acutely ill infant, on
his/her fund of knowledge including readings during the rotation and clinical presentation, and on the subintern’s
ability to care for the assigned patients. The attending neonatologist(s) on service will be responsible for the
evaluation.
**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
To develop familiarity with common pediatric neurologic problems

**OBJECTIVES**
- The student will attain the ability to perform a neurologic examination appropriate for age; recognize the significance of the presence of neurologic signs and symptoms and to plan an appropriate evaluation and generate a pragmatic differential diagnosis.
- The student will gain familiarity with neuro-diagnostic testing of various kinds, understanding the principles and the clinical uses of each test.
- The student will become familiar with common neurologic problems in pediatrics: seizures, headache, mental retardation, cerebral palsy, developmental delay, weakness, and altered states of consciousness.
- In addition, the student will gain experience in the Pediatric Neurology clinics and in the in-patient unit, performing consultations as assigned.

**BRIEF DESCRIPTION OF ACTIVITIES**
The student will report to the Division of Pediatric Neurology daily. Under faculty supervision, the student will participate in the care of assigned patients and interact with their families accordingly. The student will perform all necessary tasks involved in deciphering the reason for the patient's visit/admission and formulate a differential diagnosis and pragmatic management plan under faculty supervision. The student will need to fulfill overall requirements of the 4th year Neurology elective requirements.

**METHOD OF STUDENT EVALUATION**
The student's evaluation will be based on clinical performance, attendance and overall participation. The student will be assessed and evaluated by the attending faculty. The student will be expected to make a 20-minute presentation on a neurological subject which has attracted his or her interest during the rotation.
**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
To develop familiarity with common pediatric pulmonary problems.

**OBJECTIVES**
The student will attain the ability to perform a pulmonary examination appropriate for age, recognize the significance of the presence of pulmonary signs and symptoms and to plan an appropriate evaluation and generate a pragmatic differential diagnosis. The student will gain familiarity with pulmonary function testing, bronchoscopy, and polysomnography, understanding the principles and the clinical uses of each test. The student will become familiar with common pulmonary problems in pediatrics: croup, pneumonia, apnea, bronchiolitis, and asthma. In addition, the student will gain experience in the Pediatric Pulmonary clinics and in the in-patient unit, performing consultations as assigned. The student will also be introduced to home ventilation and essentials of pediatric homecare.

**BRIEF DESCRIPTION OF ACTIVITIES**
The student will report to the Division of Pediatric Pulmonology daily. Under faculty supervision, the student will participate in the care of assigned patients and interact with their families accordingly. The student will perform all necessary tasks involved in deciphering the reason for the patient’s visit/admission and formulate a differential diagnosis and pragmatic management plan under faculty supervision.

**METHOD OF STUDENT EVALUATION**
The student’s evaluation will be based on clinical performance, attendance and overall participation. The student will need to complete required reading and give a talk on a related topic. The student will be assessed and evaluated by the attending faculty.
**Elective Title**  
**Pediatric Critical Care Research**  
(3rd Year)  
(Pre-requisites: Pediatrics)

<table>
<thead>
<tr>
<th>Elective Director</th>
<th>Elective Faculty</th>
<th>Elective Contact</th>
<th>Contact Phone</th>
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</thead>
<tbody>
<tr>
<td>Shonola DaSilva, M.D.</td>
<td>Shonola DaSilva, M.D.</td>
<td>Maritza Rodriguez</td>
<td>856-968-9575</td>
</tr>
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<table>
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<th>Blocks Available</th>
<th>Duration/Weeks</th>
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<td>Call Prior to Scheduling</td>
<td>MIN 4, MAX 4</td>
<td>VARIABLE – SEE FACULTY</td>
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<th>Lectures/Seminars</th>
<th>Outpatient</th>
<th>Inpatient</th>
<th>Housestaff</th>
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<tr>
<th>Night Call</th>
<th>Weekends</th>
<th>Lab</th>
<th>Exam Required</th>
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<tr>
<td>No</td>
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<td>No</td>
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**Overall Educational Goal of Elective**  
To attain beginning or intermediate skills in designing, conducting and writing collaborative research.

**Objectives**  
To acquire beginning level skills if the student has little or no prior research training or to build on skills previously acquired. The objectives for a particular student’s program will be determined mutually by the faculty and the student. Potential objectives include: To become more expert in reviewing the literature in order to define a research question. To become more expert in determining research methodology and/or in following methodological procedures already established. To become more expert in collecting and managing data. To become more expert in analyzing data. To become more expert in writing up research for publication.

**Brief Description of Activities**  
The student will participate in one or more ongoing research projects with specific activities depending on the stage of the particular project at the time. Likely projects include: 1) studies of hospital noise and room acoustics in clinical areas, particularly intensive care settings. 2) Studies of the effect of noise on behavioral state (e.g., sleep), motor activity, and physiology in infants, children, and adults. 3). Studies of the effects of noise on simple learning and growth in an animal model. 4). Studies of the effects of common teratogens (e.g., lead, nicotine, street drugs) on the behavior and physiology of newborn infants and newborn animals. 5) Both basic science and clinical research projects are available. Interdisciplinary collaboration will be emphasized.

**Method of Student Evaluation**  
Evaluation will be based on standards defined jointly, in advance by the student and faculty. The standards will apply to some aspect of the work for which the student takes responsibility (e.g., reviewing the literature for a manuscript or to support a new methodology, collecting data, writing a protocol for submission to an institutional review board, writing an abstract.) Students who contribute to a study will be credited for their work in the publication of study results.
**Overall Educational Goal of Elective**
To introduce medical students to the field of Physical Medicine and Rehabilitation

**Objectives**
The elective in the Department of Physical Medicine and Rehabilitation is offered for medical students interested in learning more about the specialty of Physiatry. Included in the experience could be exposure to physiatry consultation services from pediatrics through geriatrics including trauma (brain injury, spinal cord injury and multiple fractures), neurology, orthopaedics and other diagnostic categories including chronic pain management. Students will also be able to observe physical and occupational therapists, speech pathologists and audiologists individually and in the context of the team approach to patient care. EMG testing as well as outpatient physiatry services can be included in the experience. The goal of the physiatry elective would be to give students an appreciation of the important contribution Physical Medicine and Rehabilitation can make to overall patient care.

**Brief Description of Activities**
The student will learn how to perform a functional examination, and will be on consult service, outpatient and EMG services.

**Method of Student Evaluation**
Letter of evaluation at conclusion of elective
**Elective Title**
**Child Psychiatry (3rd Year)**
(PRE-REQUISITE: Psychiatry)

**Course Number**
PSYC 9020

**Location**
Cooper University Hospital

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**Elective Director**
Rao Gogineni, M.D.

**Elective Faculty**
Departmental Faculty

**Elective Contact**
Viktoria Rile

**Contact Phone**
856-757-7853

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**Blocks Available**
All

**Duration/Weeks**
MIN 2 MAX 4

**Hours per Week**
40

**Students**
MAX 1

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**Lectures/Seminars**
No

**Outpatient**
Yes

**Inpatient**
No

**Housestaff**
Yes

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**Night Call**
No

**Weekends**
No

**Lab**
No

**Exam Required**
No

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**Overall Educational Goal of Elective**
Senior Elective Child Psychiatry

**Objectives**
A medical student at the termination of this elective will be able to:
- Demonstrate knowledge of child and/or adolescent development, both normal and pathological
- Demonstrate skill in assessing the effects of pediatric illness on developmental progression both in the child and the family
- Demonstrate ability to refer children to an appropriate form of treatment for a given psychiatric disturbance

**Brief Description of Activities**
Students will observe children in a variety of clinical settings—outpatient evaluation, pediatric consultation/liaison, group homes and school settings. They will receive close supervision and didactic teaching from attending psychiatrists, residents, social workers, and psychologists.

**Method of Student Evaluation**
Attending psychiatrist supervisors will evaluate students through daily contact and case write-ups, and/or a paper on a selected topic in psychiatry.
### Elective Title

**Consultation Psychiatry (3rd Year)**

*Pre-Requisite: Psychiatry*

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<thead>
<tr>
<th>Elective Director</th>
<th>Elective Faculty</th>
<th>Elective Contact</th>
<th>Contact Phone</th>
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</thead>
<tbody>
<tr>
<td>Thomas Newmark, M.D.</td>
<td>Departmental Faculty</td>
<td>Viktoria Rile</td>
<td>856-757-7853</td>
</tr>
</tbody>
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<tr>
<th>Blocks Available</th>
<th>Duration/Weeks</th>
<th>Hours per Week</th>
<th>Students</th>
<th>Lectures/Seminars</th>
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<th>Inpatient</th>
<th>Housestaff</th>
<th>Night Call</th>
<th>Weekends</th>
<th>Lab</th>
<th>Exam Required</th>
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<tbody>
<tr>
<td>All</td>
<td>Min 2 Max 4</td>
<td>40</td>
<td>Max 1</td>
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**Course Number:** PSYC 9030

**Location:** Cooper University Hospital

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**Overall Educational Goal of Elective**

Senior Elective Consultation Psychiatry

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**Objectives**

- A medical student at the termination of this elective will be able to:
- Demonstrate the ability to make accurate assessments of the psychiatric problems of medically ill patients
- Demonstrate knowledge of psychiatric disorders which present on medical services, such as chronic pain, somatoform disorders, delirium, medical noncompliance, drug abuse, depression and anxiety

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**Brief Description of Activities**

Students will be part of the psychiatric consultation service at Cooper. They will see patients for whom psychiatric consultation is requested, under the supervision of attending psychiatrists and residents. When indicated, the students will follow these patients beyond their hospital stay.

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**Method of Student Evaluation**

Daily contact with residents and attending staff. Paper on selected aspect of the consultation liaison experience and/or case write-ups and presentation are optional.
<table>
<thead>
<tr>
<th><strong>ELECTIVE TITLE</strong></th>
<th><strong>COURSE NUMBER</strong></th>
<th><strong>LOCATION</strong></th>
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<tbody>
<tr>
<td><strong>SPECIAL PROJECT IN PSYCHIATRY</strong> (3rd YEAR)</td>
<td>PSYC 9050</td>
<td>COOPER UNIVERSITY HOSPITAL</td>
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<td>(PRE-REQUISITE: PSYCHIATRY)</td>
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<table>
<thead>
<tr>
<th><strong>ELECTIVE DIRECTOR</strong></th>
<th><strong>ELECTIVE FACULTY</strong></th>
<th><strong>ELECTIVE CONTACT</strong></th>
<th><strong>CONTACT PHONE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>THOMAS NEWMARK M.D.</td>
<td>DEPARTMENTAL FACULTY</td>
<td>Viktoria Rile</td>
<td>856-757-7853</td>
</tr>
</tbody>
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<table>
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<tr>
<th><strong>BLOCKS AVAILABLE</strong></th>
<th><strong>DURATION/WEEKS</strong></th>
<th><strong>HOURS PER WEEK</strong></th>
<th><strong>STUDENTS</strong></th>
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<td>ALL</td>
<td>MIN 2 MAX 4</td>
<td>40</td>
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<tr>
<th><strong>LECTURES/SEMINARS</strong></th>
<th><strong>OUTPATIENT</strong></th>
<th><strong>INPATIENT</strong></th>
<th><strong>HOUSESTAFF</strong></th>
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<tr>
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<tr>
<th><strong>NIGHT CALL</strong></th>
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<th><strong>LAB</strong></th>
<th><strong>EXAM REQUIRED</strong></th>
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<tr>
<td>NO</td>
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**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
Senior Elective Special Project in Psychiatry

**OBJECTIVES**
The medical student at the termination of this elective will be able to:
- Demonstrate ability to work independently to develop specialized knowledge of a particular area of psychiatry.
- Demonstrate ability to prepare a written presentation of body of knowledge about a subject in psychiatry.

**BRIEF DESCRIPTION OF ACTIVITIES**
Students will set up with faculty advisors a clinical or research experience within the field of psychiatry designed to increase their understanding of a particular issue or topic. They will be expected to submit a paper describing what they have learned.

**METHOD OF STUDENT EVALUATION**
Assessment will be by faculty advisor and based on the submitted paper.
**ELECTIVE TITLE**

GERIATRIC PSYCHIATRY (3rd Year)

(Pre-Requisite: Psychiatry)

**COURSE NUMBER**

PSYC 9052

**LOCATION**

COOPER UNIVERSITY HOSPITAL

---

**ELECTIVE DIRECTOR**

TERESA HUMARAN, MD

**ELECTIVE FACULTY**

TERESA HUMARAN, MD PAMELA SZEELEY, M.D.

**ELECTIVE CONTACT**

Viktoria Rile

**CONTACT PHONE**

856-757-7853

---

**BLOCKS AVAILABLE**

ALL

**DURATION/WEEKS**

MIN 2 MAX 4

**HOURS PER WEEK**

40

**STUDENTS**

MAX 1

---

**LECTURES/SEMINARS**

NO

**OUTPATIENT**

YES

**INPATIENT**

YES

**HOUSESTAFF**

YES

---

**NIGHT CALL**

NO

**WEEKENDS**

NO

**LAB**

NO

**EXAM REQUIRED**

NO

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**OVERALL EDUCATIONAL GOAL OF ELECTIVE**

To broaden exposure to all aspects of geriatric psychiatry.

**OBJECTIVES**

During the elective, the student will:

- Become familiar with normal aging as well as common stressors faced by the elderly, including illness, end of life issues, bereavement and grief
- Be able to recognize and treat depressive, anxiety and psychotic disorders in elderly populations
- Gain experience in the assessment and treatment of cognitive disorders in the elderly including dementia and delirium
- Gain experience in geriatric psychopharmacology

**BRIEF DESCRIPTION OF ACTIVITIES**

Students will participate in the evaluation and treatment of geriatric patients with a variety of psychiatric disorders. Settings will include outpatient, inpatient and long term care (South Jersey Health Center). Close supervision will be provided by faculty and residents. Students will attend relevant didactics.

**METHOD OF STUDENT EVALUATION**

Faculty will evaluate students based on daily observation and review of medical documentation.
**Elective Title**

**Inpatient Psychiatry (3rd Year)**

*(Pre-Requisite: Psychiatry)*

**Course Number**

PSYC 9060

**Location**

Cooper University Hospital

<table>
<thead>
<tr>
<th>Elective Director</th>
<th>Thomas Newmark, M.D.</th>
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<tbody>
<tr>
<td><strong>Elective Faculty</strong></td>
<td>Department Faculty</td>
</tr>
<tr>
<td><strong>Elective Contact</strong></td>
<td>Viktoria Rile</td>
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<td><strong>Duration/Weeks</strong></td>
<td>Min 2 Max 4</td>
</tr>
<tr>
<td><strong>Hours per Week</strong></td>
<td>40</td>
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<tr>
<td><strong>Students</strong></td>
<td>Max 1</td>
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<table>
<thead>
<tr>
<th>Lectures/Seminars</th>
<th>No</th>
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<tbody>
<tr>
<td><strong>Outpatient</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Inpatient</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Housestaff</strong></td>
<td>Yes</td>
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<table>
<thead>
<tr>
<th>Night Call</th>
<th>No</th>
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<tbody>
<tr>
<td><strong>Weekends</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Lab</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Exam Required</strong></td>
<td>No</td>
</tr>
</tbody>
</table>

**Overall Educational Goal of Elective**

The student will gain advanced experience and knowledge of the diagnosis and treatment of hospitalized psychiatrically ill patients.

**Objectives**

During the elective, the student will:

- Gain additional experience in the evaluation and treatment of acutely psychiatrically ill adults; diagnoses will include major depression, bipolar disorder, schizophrenia, personality disorders and substance/alcohol abuse
- Perform comprehensive psychiatric interviews and mental status testing
- Learn techniques of supportive individual and group therapy
- Gain additional experience in the use of psychotropic medications
- Understand use and interpretation of labs in psychiatry

**Brief Description of Activities**

Students will participate in the care of psychiatrically ill adult inpatients under the close supervision of faculty and residents. The elective will be based on South 5 in Cooper Hospital, but arrangements can be made for additional experience at Hampton Hospital and/or Atlantic City Medical Center. Students will take an active part in team meetings, treatment planning and discharge planning.

**Method of Student Evaluation**

Faculty will evaluate students based on daily observation and review of medical documentation.
**Overall Educational Goal of Elective**
To familiarize students with developing science of neuropsychiatry and to increase knowledge of neuropsychiatric syndromes and methods of evaluating them.

**Objectives**
During the elective, the student will:
- Gain knowledge of disorders with prominent neuropsychiatric symptoms, including TBI, Parkinson’s Disease, dementias, seizure disorders, movement disorders and developmental disorders
- Become familiar with neuropsychiatric assessment including the use of comprehensive history, neuropsych testing, neurological exam, eeg and structural and functional brain imaging
- Gain experience in the multidisciplinary treatment of complex disorders

**Brief Description of Activities**
Students will participate in the evaluation and treatment of patients with a variety of neuropsychiatric disorders in multiple settings, including community psychiatric centers, special schools and rehab centers. Students will be closely supervised by faculty and residents.

**Method of Student Evaluation**
Faculty will evaluate students based on daily observation and review of medical documentation.
<table>
<thead>
<tr>
<th><strong>Elective Title</strong></th>
<th><strong>Course Number</strong></th>
<th><strong>Location</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Psychiatry (3rd Year) (Pre-requisite: Psychiatry)</td>
<td>PSYC 9072</td>
<td>Cooper University Hospital</td>
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<table>
<thead>
<tr>
<th><strong>Elective Director</strong></th>
<th><strong>Elective Faculty</strong></th>
<th><strong>Elective Contact</strong></th>
<th><strong>Contact Phone</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pamela Szeeley, M.D.</td>
<td>Pamela Szeeley, M.D., Ruksana Iftekhar, M.D.</td>
<td>Viktoria Rile</td>
<td>856-757-7853</td>
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<table>
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<th><strong>Blocks Available</strong></th>
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<td>No</td>
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</table>

**Overall Educational Goal of Elective**
To familiarize students with the care of people with chronic mental illness in a community setting.

**Objectives**
During the elective, the student will:
- Gain experience in the evaluation and treatment of patients with chronic, persistent mental illnesses, including schizophrenia, bipolar disorder and patients with dual diagnoses (mental illness and chemically dependent) in community treatment settings.
- Participate in the assessment and management of children with intensive treatment needs in community settings, including group homes.
- Become familiar with student mental health services in a university setting.

**Brief Description of Activities**
Students will participate in the evaluation and treatment of psychiatrically ill adults and children in a variety of community settings including day programs, group homes, specialized schools and student mental health service. Close supervision will be provided by faculty and residents.

**Method of Student Evaluation**
Faculty will evaluate students based on daily observation and review of medical documentation.
ELECTIVE TITLE
RADIATION ONCOLOGY (3rd Year)

COURSE NUMBER
RONC 9000

LOCATION
COOPER UNIVERSITY HOSPITAL

ELECTIVE DIRECTOR
SAMUEL HUGHES, M.D.

ELECTIVE FACULTY
DEPARTMENT CLINICAL, PHYSICS AND RESEARCH FACULTY

ELECTIVE CONTACT
MAUREEN HIGHLAND

CONTACT PHONE
856-325-6634
FAX: 856-968-8361

BLOCKS AVAILABLE
ALL

DURATION/WEEKS
MIN: 2 MAX: 4

HOURS PER WEEK
40

STUDENTS
MAX: 1

LECTURES/SEMINARS
YES

OUTPATIENT
YES

INPATIENT
YES

HOUSESTAFF
NO

NIGHT CALL
NO

WEEKENDS
NO

LAB
NO

EXAM REQUIRED
NO

OVERALL EDUCATIONAL GOAL OF ELECTIVE
Introduction to radiation oncology in treatment of cancer.

OBJECTIVES
- To introduce the trainee to all principles of oncologic practice, including surgical, medical and radiation, from point of initial diagnosis through staging evaluations, therapeutic decision making, treatment and follow-up.
- The student will be exposed to a large out-patient population not normally seen in the hospital milieu and will have exposure to "State-of-the art" modalities including high dose rate after loading brachytherapy, systemic radiation therapy, 3-dimensional treatment planning, stereotactic radiosurgery, and intensity modulated radiation therapy (IMRT).

BRIEF DESCRIPTION OF ACTIVITIES
The trainee will participate in new-patient evaluation, follow-up clinic, high dose radiation implant procedures, and external radiation, and will be introduced to computerized treatment planning techniques. An opportunity will be given to rotate through the site-specific departmental services, including head and neck, breast, GYN, CNS, pediatrics, lymphoma/leukemia, GI, GU, gamma knife and cyberknife.

METHOD OF STUDENT EVALUATION
Observation of clinical expertise and patient management, observation of performance during department and multimodality conferences and oral quizzing by clinical staff.
<table>
<thead>
<tr>
<th>ELECTIVE TITLE</th>
<th>COURSE NUMBER</th>
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</thead>
<tbody>
<tr>
<td>DIAGNOSTIC RADIOLOGY &amp; NUCLEAR MEDICINE</td>
<td>RAD 9010</td>
<td>COOPER UNIVERSITY HOSPITAL</td>
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<th>ELECTIVE FACULTY</th>
<th>ELECTIVE CONTACT</th>
<th>CONTACT PHONE</th>
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</thead>
<tbody>
<tr>
<td>EDWARD G. MOSS, M.D.</td>
<td>EDWARD G. MOSS, M.D.</td>
<td>Maria Perez</td>
<td>856-342-2383</td>
</tr>
</tbody>
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<th>BLOCKS AVAILABLE</th>
<th>DURATION/WEEKS</th>
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<th>HOUSESTAFF</th>
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<tr>
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</table>

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
The overall goal of this elective is to give the student a basic understanding of an approach to ordering and interpreting plain film, fluoroscopic CT, ultrasound, MRI, musculoskeletal, nuclear medicine, neuroimaging, and angiographic/interventional examinations and nuclear studies.

**OBJECTIVES**
- To familiarize the student with:
  - The proper ordering of appropriate imaging examinations.
  - Integrating the results of the examinations into the diagnostic and therapeutic processes.
  - Finding the findings, i.e., detecting basic abnormalities on imaging examinations.

**BRIEF DESCRIPTION OF ACTIVITIES**
The rotation has been structured to include:
- The opportunity to attend the two daily conferences given for the radiology residents as well as interdepartmental conferences.
- Rotations through the general and specialty film reading areas of the department.
- Observation of patients undergoing fluoroscopic, angiographic, interventional, US, CT, MR, nuclear medicine and mammographic examinations/procedures and discussion with radiologists regarding appropriateness, efficacy, indications, contraindications, level of patient cooperation required, etc.
- Optional. During the third week, in consultation with Dr. Moss, picking a topic for a brief presentation or short paper during the fourth week. The assignment will be to "research" the imaging workup of a specific medical or surgical clinical presentation or disease entity. Applies only to those taking the elective for 4 weeks.
- The opportunity to review audiovisual teaching materials including a tape-slide program (Squires) and videotapes.

The following textbook is required reading for the course but need not be purchased inasmuch as the Sharp Library holds several copies: Lucy Frank Squire and Robert A. Novelline: Fundamentals of Radiology, fourth edition. Boston, 1988 (Harvard University Press). (5th edition, 1996, on order)

**METHOD OF STUDENT EVALUATION**
Evaluation by faculty based on clinical sessions and didactic interaction.
**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
The overall goal of this elective is to give the student a basic understanding of criteria for ordering and interpreting neuroimaging examinations and procedures.

**OBJECTIVES**
To familiarize the student with:
- The proper ordering of appropriate imaging examinations.
- Integrating the results of the examinations into the diagnostic and therapeutic processes.
- Finding the findings, i.e., detecting basic abnormalities on imaging examinations.

**BRIEF DESCRIPTION OF ACTIVITIES**
The rotation has been structured to include:
- Participation in film-review sessions with neuroradiologists and residents.
- Observation of patients undergoing CT and MR examinations and myelographic, angiographic, and interventional procedures and discussions with the neuroradiologists of appropriateness, efficacy, indications, contraindications, level of patient cooperation required, etc.
- Attendance at intradepartmental and interdisciplinary conferences.
- Review of teaching file and other teaching materials.

Reading Materials: To be selected by neuroradiologists

**METHOD OF STUDENT EVALUATION**
Evaluation by faculty based on clinical sessions and didactic interactions.
<table>
<thead>
<tr>
<th><strong>ELECTIVE TITLE</strong></th>
<th><strong>COURSE NUMBER</strong></th>
<th><strong>LOCATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEDIATRIC IMAGING (3rd Year)</td>
<td>RAD 9030</td>
<td>COOPER UNIVERSITY HOSPITAL</td>
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<tr>
<th><strong>ELECTIVE DIRECTOR</strong></th>
<th><strong>ELECTIVE FACULTY</strong></th>
<th><strong>ELECTIVE CONTACT</strong></th>
<th><strong>CONTACT PHONE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>EDWARD G. MOSS, M.D.</td>
<td>JULIO MATA, M.D.</td>
<td>MARIA PEREZ</td>
<td>856-342-2383</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th><strong>BLOCKS AVAILABLE</strong></th>
<th><strong>DURATION/WEEKS</strong></th>
<th><strong>HOURS PER WEEK</strong></th>
<th><strong>STUDENTS</strong></th>
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<tr>
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<td>40</td>
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<th><strong>LECTURES/SEMINARS</strong></th>
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<tr>
<th><strong>NIGHT CALL</strong></th>
<th><strong>WEEKENDS</strong></th>
<th><strong>LAB</strong></th>
<th><strong>EXAM REQUIRED</strong></th>
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</thead>
<tbody>
<tr>
<td>NO</td>
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<td>NO</td>
<td>NO</td>
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</tbody>
</table>

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
The overall goal of this elective is to give the student a basic understanding of criteria for ordering and interpreting pediatric imaging examinations and procedures.

**OBJECTIVES**
To familiarize the student with:
- The proper ordering of appropriate imaging examinations.
- Integrating the results of the examinations into the diagnostic and therapeutic processes.
- Finding the findings, i.e., detecting basic abnormalities on imaging examinations.

**BRIEF DESCRIPTION OF ACTIVITIES**
The rotation has been structured to include:
- Participation in film-review sessions with pediatric radiologist and residents.
- Observation of patients undergoing imaging examinations and procedures and discussions with the pediatric radiologist of appropriateness, efficacy, indications, contraindications, level of patient cooperation required, etc.
- Attendance at intradepartmental and interdisciplinary conferences review of teaching file and other teaching materials.

Reading Materials: To be selected by pediatric radiologist.

**METHOD OF STUDENT EVALUATION**
Evaluation by faculty based on clinical sessions and didactic interactions.
<table>
<thead>
<tr>
<th><strong>ELECTIVE TITLE</strong></th>
<th><strong>CARDIOVASCULAR &amp; THORACIC SURGERY (3rd YEAR)</strong> (PRE-REQUISITE: SURGERY)</th>
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</thead>
<tbody>
<tr>
<td><strong>COURSE NUMBER</strong></td>
<td>SURG 9040</td>
</tr>
<tr>
<td><strong>LOCATION</strong></td>
<td>COOPER UNIVERSITY HOSPITAL</td>
</tr>
<tr>
<td><strong>ELECTIVE DIRECTOR</strong></td>
<td>JEFFREY CARPENTER, M.D.</td>
</tr>
<tr>
<td><strong>ELECTIVE FACULTY</strong></td>
<td>JEFFREY CARPENTER, M.D.</td>
</tr>
<tr>
<td><strong>ELECTIVE CONTACT</strong></td>
<td>LEE RAYSER</td>
</tr>
<tr>
<td><strong>CONTACT PHONE</strong></td>
<td>856-963-3985</td>
</tr>
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<td><strong>BLOCKS AVAILABLE</strong></td>
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<td><strong>DURATION/WEEKS</strong></td>
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</tr>
<tr>
<td><strong>HOURS PER WEEK</strong></td>
<td>40+</td>
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<td><strong>STUDENTS</strong></td>
<td>MAX 1</td>
</tr>
<tr>
<td><strong>LECTURES/SEMINARS</strong></td>
<td>NO</td>
</tr>
<tr>
<td><strong>OUTPATIENT</strong></td>
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<td><strong>INPATIENT</strong></td>
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<tr>
<td><strong>HOUSESTAFF</strong></td>
<td>SOMETIMES</td>
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<td><strong>WEEKENDS</strong></td>
<td>NO</td>
</tr>
<tr>
<td><strong>LAB</strong></td>
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</tr>
<tr>
<td><strong>EXAM REQUIRED</strong></td>
<td>NO</td>
</tr>
</tbody>
</table>

**OVERALL EDUCATIONAL GOAL OF ELECTIVE**
The student spending time on this service will become heavily involved, not only with the surgical procedures themselves, but with cardiac catheterization and cardiologic and combined conferences.

**OBJECTIVES**
- Close participation in pre-operative, operative and post-operative management of the surgical patient
- Greater responsibility will be given to the senior student who will be expected to act in the capacity of a junior housestaff officer.

**BRIEF DESCRIPTION OF ACTIVITIES**
The student's time will be spent in the operating suite, on the patient floors and attendance at the various rounds and conferences within the department of Surgery and other related departments.

**METHOD OF STUDENT EVALUATION**
The student will be evaluated by each staff member, with a composite evaluation prepared by the head of the division.
## Elective Title

**NEUROSURGERY** (3rd Year)

*(Pre-Requisite: OR ORIENTATION)*

<table>
<thead>
<tr>
<th>Elective Director</th>
<th>Elective Faculty</th>
<th>Elective Contact</th>
<th>Contact Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. WARREN GOLDMAN, MD</td>
<td>ALAN TURTZ, M.D.</td>
<td>LEE RAYSER</td>
<td>856-963-3985</td>
</tr>
<tr>
<td>STEVEN YOCUM, D.O.</td>
<td></td>
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</tbody>
</table>

## Overall Educational Goal of Elective

The student will acquire a familiarity with the diagnosis and management of neurosurgical diseases.

## Objectives

The student will be given the opportunity to act as in-house physician in the management of neurosurgical patients under the supervision of the attending staff and residents.

## Brief Description of Activities

The student will be instructed in the performance and interpretation of the basic neurologic examination. A basic understanding of neurosurgical diseases, including trauma, oncology and cerebrovascular disorders will be obtained by didactic teaching and patient exposure. The student will participate in neurology, neuropathology and neuroradiology conferences during the elective. Exposure to neurosurgical patients on the wards, in the operating room and in the neurosurgical clinic will be obtained.

## Method of Student Evaluation

Each teaching faculty member will submit a personal evaluation of the student. This will be summarized and presented by the director of the program.
**ELECTIVE TITLE**

**PLASTIC SURGERY (3rd Year)**  
(Pre-Requisite: OR ORIENTATION)

---

**COURSE NUMBER**  
SURG 9180

**LOCATION**  
COOPER UNIVERSITY HOSPITAL

---

**ELECTIVE DIRECTOR**  
MARTHA MATTHEWS, M.D.

**ELECTIVE FACULTY**  
LEILANI FAHEY, MD  
MARTHA MATTHEWS, MD

**ELECTIVE CONTACT**  
LEE RAYSER

**CONTACT PHONE**  
856-963-3985

---

**BLOCKS AVAILABLE**  
ALL

**DURATION/WEEKS**  
MIN 2 MAX 4

**HOURS PER WEEK**  
40

**STUDENTS**  
MAX 1

---

**LECTURES/SEMINARS**  
YES

**OUTPATIENT**  
YES

**INPATIENT**  
YES

**HOUSESTAFF**  
YES

---

**NIGHT CALL**  
YES (AT HOME)

**WEEKENDS**  
NO

**LAB**  
NO

**EXAM REQUIRED**  
NO

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**OVERALL EDUCATIONAL GOAL OF ELECTIVE**

Principles of wound healing will be emphasized in addition to the treatment of patients with problems of the hand, congenital anomalies, traumatic injuries and aesthetic surgery.

**OBJECTIVES**

Clinical experience on the plastic surgery service includes exposure to office practice and out-patient surgery, as well as more complex aesthetic and reconstructive procedures requiring in-patient treatment. The assessment and treatment of patients with a wide variety of clinical problems from the Trauma Unit and Regional Cleft Palate/Craniofacial Program will be encountered. An appreciation of microsurgery will also be available on this rotation.

**BRIEF DESCRIPTION OF ACTIVITIES**

The student's time will be spent in the operating room, physician's office, and patient care areas in the hospital. Participation in the Regional Cleft Palate Program sessions will be part of the student's responsibility. Suture skills will be taught.

**METHOD OF STUDENT EVALUATION**

Students will be evaluated by the faculty in the Division of Plastic and Reconstructive Surgery. Specific expectations are available in the Office of Surgical Education. A formal presentation is required.
**Elective Title**

**UROLOGY (3rd Year)**

*(Pre-requisite: OR Orientation)*

---

**Course Number**
SURG 9250

**Location**
COOPER UNIVERSITY HOSPITAL

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<table>
<thead>
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<th>Contact Phone</th>
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</thead>
<tbody>
<tr>
<td>JOEL MARMAR, M.D.</td>
<td>JOEL MARMAR, M.D.</td>
<td>LEE RAYSER</td>
<td>856-963-3577</td>
</tr>
<tr>
<td>Raul Parra, M.D.</td>
<td></td>
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<table>
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<th>Exam Required</th>
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<tr>
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**Overall Educational Goal of Elective**
It is the opinion of the Division of Urology that the students who are interested in Urology will get a complete exposure to the field, which will be helpful in their careers of medicine and perhaps interest these students in the field of Urology in particular.

**Objectives**
- This course is intended for those students who show an interest in the field of Urology.
- These students will spend four weeks with the Division of Urology.
- The students will have exposure to patient care, clinic patients, operating room exposure and doctor's private office.

**Brief Description of Activities**
The facilities will include the Cystoscopy Room, Operating Room, Urodynamics Laboratory, Urologic Clinic, private office experience, lecture series in Urology. There is also a formal lecture series that is given by the Division of Urology, which covers all phases of Urologic Science and Surgery. Particular emphasis will be placed on urodynamic evaluation of patients, infertility evaluations of the male and exposure to renal transplantation. Several basic science and clinical research projects are available, especially for those seeking Urology Residency Programs.

**Method of Student Evaluation**
The Division will prepare an evaluation of the performance of each student.
**Elective Title**

**Vascular Surgery Elective**  
(3rd Year)  
*(Pre-requisite: OR Orientation)*

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<tr>
<th><strong>Course Number</strong></th>
<th>SURG 9272</th>
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<tbody>
<tr>
<td><strong>Location</strong></td>
<td>Cooper University Hospital</td>
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**Elective Director**  
James Alexander, M.D.

**Elective Faculty**  
James Alexander, M.D.  
Babak Abai, M.D.

**Elective Contact**  
Lee Rayser

**Contact Phone**  
856-963-3985

**Blocks Available**  
All

**Duration/Weeks**  
Min 2  Max 4

**Hours per Week**  
50 (Approx.)

**Students**  
Max 1

**Lectures/Seminars**  
Yes

**Outpatient**  
Yes

**Inpatient**  
Yes

**Housestaff**  
Yes

**Night Call**  
No

**Weekends**  
No

**Lab**  
No

**Exam Required**  
No

**Overall Educational Goal of Elective**
The student will gain sufficient understanding of the evaluation and management of patients with vascular diseases to enable comprehensive primary care management of these conditions.

**Objectives**
- The student will make relevant findings in obtaining the history and physical examination of patients with vascular disease.
- The student will articulate an appropriate differential diagnosis for patients with acute and chronic vascular diseases.
- The student will demonstrate cost-effective use of diagnostic modalities in assessing patients with vascular disease.

**Brief Description of Activities**
The student will be an integral member of the Vascular Surgery Service at Cooper Hospital. Rounds usually start at 6:00 AM on Tuesdays and Thursdays and at 7:00 AM the other five days of the week. The student will attend operative, interventional and diagnostic procedures on patients on the service. The student will evaluate consults, both in the Emergency Department and in the hospital. In addition, the student will attend the faculties’ office hours.

The student will perform history and physical examinations on patients admitted to the service. The student will perform focused exams on patients who are seen in consultation. The student will develop differential diagnoses for these patients and will formulate plans for further evaluation and management.

The student will attend the Department of Surgery Morbidity and Mortality Conference on Tuesday mornings at 7:00 AM and the Departmental Grand Rounds Tuesdays at 8:00. The student will also attend the Interdisciplinary Vascular Case Conference on the third Tuesday of the month at 4:00. Other, outside opportunities for learning at conferences will be made available as they arise.

**Method of Student Evaluation**
The student’s performance of clinical duties on the service will be assessed by the faculty and residents. Written history and physical exams will be reviewed. The student will receive feedback on the quality of their presentations on rounds. The student will prepare a twenty minute talk for presentation to the service on a topic selected in conjunction with the faculty.