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**Message to MCG Seniors**

During the first three years of medical school, the curriculum has been structured to provide you with the necessary knowledge, skills, attitudes, and behaviors to become a competent physician. However, in your senior year, you and your advisor will develop your educational experience. Even though the ultimate choice of electives is up to you and your advisor, you will need to strive to develop an experience that will provide you with the best foundation possible to begin your internship.

Your fourth year should be structured to provide you with clinical experiences that compliment your education to date. The senior year is ten months in length. You are required to complete 2 clerkships and 2 selectives. All students must complete an adult ambulatory care clerkship, an emergency medicine clerkship, an acting internship selective, and a critical care selective. The remainder of the senior year consists of a minimum of three electives. Of these three electives, one must be completed on-campus. An on-campus elective for Augusta students is defined as a rotation at the Medical College of Georgia, the V.A. Medical Center, Trinity Hospital or University Hospital. Rotations in the offices of private physicians or other hospitals in the Augusta area are considered off-campus rotations. Students assigned to a Regional/Partnership Campus (SE, SW, NE or NW) should check with their respective Deans Office to determine specific on-campus requirements for graduation. Only one international experience may be used to fulfill the elective requirements for graduation. Students can only receive credit for one research elective regardless of the length of the experience. A student may do research electives in different areas of interest; however, only one of these electives will fulfill the elective requirements for graduation. If a student did not complete a third year elective, you are required to do a total of four electives in the senior year to fulfill the requirements for graduation. Two of the four electives must be on-campus. All off-campus electives for graduation credit must be approved by the Curriculum Office. Students will not receive retroactive credit for electives that were not approved by the Curriculum Office.

You should consider taking electives in areas that you would like to gain further clinical experiences or expand your fund of knowledge. Also, you may want to consider performing an elective at the institution you are considering for your internship. These opportunities provide you with a chance to evaluate the residency programs. Likewise, the residency programs will have an opportunity to gain firsthand experience with you. I suggest that you consider performing an acting internship prior to doing an off-campus elective at a location that you are interested in pursuing for your residency program. An acting internship provides you with additional clinical experience and will enhance your performance when you do off-campus rotations.

As you develop your senior schedule, it would be helpful to consider reserving a month for interviews. While some interviews may take place within the geographic area of Augusta, multiple absences while on clinical rotations can negatively impact your performance. Even though you are interviewing, this is not considered an acceptable reason for being absent from a senior rotation. All students must participate in the Phase 3 OSCE. Also, you will need to consider when you would like to take both parts of the USMLE Step 2. My recommendation is to take the exams as early as possible in the academic year when you feel prepared. Many residency programs are interested in your performance on Step 2. You must take both the Step 2 CK and CS exams no later than December 15th.

Your elective schedule must be approved by your faculty advisor. Please discuss all schedule changes with your advisor. If you change advising departments, you must select a new advisor in that department. Changes in the advising departments are handled through the Curriculum Office. You should meet with your advisor periodically to discuss your academic record, career, and personal goals.

I strongly encourage you to develop a senior experience that will both be professionally and academically rewarding. The goal should be to optimally prepare you for beginning your internship. All individuals in the Curriculum Office are more than happy to assist you in any way possible as you proceed through this final step of your undergraduate education for a very successful senior year.
General Information

I. Requirements for Completion of Phase 3

A. General Requirements

1. Students must satisfactorily complete all requirements for Phase 2 before entering Phase 3.

2. The minimum Phase 3 requirement for graduation from the School of Medicine, Medical College of Georgia, is the satisfactory completion of 11 months of core clerkships, and the following:

   (1) Acting Internship in: a) Medicine, b) Family Medicine, c) Neurology, d) Pediatrics, e) OB/GYN, or f) Surgery
   (2) A clerkship in Emergency Medicine
   (3) A Critical Care rotation, and
   (4) An Adult Ambulatory Clerkship, and
   (5) 4 months of electives. Students are encouraged to take more than the minimum number of electives.

B. Required Junior Clerkships

1. Medicine 5000C – 8 weeks
2. Neuroscience 5000 – 4 weeks
3. Obstetrics & Gynecology 5000A–6 weeks
4. Pediatrics 5000– 6 weeks
5. Psychiatry 5000–4 weeks
6. Surgery 5000A–8 weeks
7. Family Medicine 5000–6 weeks
8. Medicine 6000- 2 weeks

C. Senior Year Requirements

1. Selectives:
   a. Selectives are only available to students who have completed their junior core rotation requirements.

   All students are required to complete an acting (sub) internship in Internal Medicine, Family Medicine, Neurology, Pediatrics, OB/GYN or Surgery from the options listed below:

   FMPC 5003 Preceptorship
   FMPC 5007 FMP Residency Externship Rome
   FMPC 5008 FMP Residency Externship Columbus
   FMPC 5009 FMP Residency Externship Savannah
   FMPC 5010 FMP Rural Medicine Waycross
   FMPC 5011 Sub I–GHS Health System
   FMPC 5013 FMP Residency Externship Albany
   FMPC 5014 FMP Residency Externship Morrow
   FMPC 5016 FMP Residency Externship Waycross
   GMED 5008 Internship at VA
   GMED 5009 Internship at EAMC
   GMED 5011 Internship at GRU/SE campus
   GMED 5030 Internship at Atlanta Medical Center

   GMED 5079 Substitute Internship- By Medicine Department approval only
   GMED 5083 Substitute Internship regional campus students – NE/NW/SE/SW
   NEUR 5001 – Acting Internship in Adult Neurology
   OBGN 5009 Substitute Internship at MCG
   *Peds 5001 Substitute Neonatal Intern MCG/Albany/Athens/Columbus
   Peds 5009 Substitute Intern at MCG/Savannah
   SURG 5007 Substitute Internship at GRU, VA
   And regional campus locations – Specialty List in Course Desc.
   SURG 5016 – By Dr. Albritton’s approval – (Graduation Credit Form)

   b. All students must take one of the Critical Care rotations listed below:
      ANES 5011 Anesthesiology Clerkship
      ANES 5015 Critical Care Anesthesia
      GMED 5026 Critical Care at VA
      GMED 5034 Critical Care at either MCG/Brunswick/Savannah/Rome
      GMED 5049 Critical Care at EAMC
      GMED 5069 Pulmonary Medicine Critical Care at Atlanta Medical Center
      GMED5074 Pulmonary Critical Care at Trinity Hospital and University Hospital, Augusta
      *Peds 5001 Substitute Neonatal Intern
      GRU/Albany/Athens/Columbus
      Peds 5018 Pediatric Critical Care at GRU/ Savannah
      SURG 5005 Trauma Rotation at Savannah
      SURG 5008 Clinical Management of Critically Ill at GRU
      SURG 5013 Surgical Critical Care at Atlanta Medical Center
      SURG 5325 Thoracic and Cardiac Clerkship at GRU and VA

2. Clerkships:
   All students are required to complete the following two clerkships:
   a. GMED 5077 - Ambulatory Care Clerkship
   b. EMED 5001 – Emergency Medicine Clerkship

2. Electives:
   Senior students must successfully complete a minimum of three electives. If a student did not complete a third year elective, then a fourth elective is required in the senior year to fulfill graduation requirements. At least one of the three senior elective done in the fourth year must be on campus. Of these three electives, one must be completed on-campus. An on-campus elective for Augusta students is defined as a rotation at the Medical College of Georgia, the V.A. Medical Center, Trinity Hospital or University Hospital. Rotations in the offices of private physicians or other hospitals in the Augusta area are considered off-campus rotations. Students assigned to a Regional/Partnership Campus (SE, SW, NE or NW) should check with their respective Deans Office to determine specific on-campus requirements for graduation. Because electives provide students the
opportunity to broaden their training, students are advised to complete more than the minimum of 3 electives. Only one international experience may be used to fulfill the elective requirements for graduation. Students can only receive credit for one research elective, regardless of the length of the experience. A student may do research electives in different areas of interest; however, only one of these electives will fulfill the elective requirements for graduation.

- PEDS 5001 can count as a Critical Care Selective or Acting Sub-Internship Selective. This elective can count for one or the other, but not both.

II. Registering for Rotations:
For official enrollment into a course, the Special Elective Approval form (SEA Form) must be completed and submitted to the Curriculum Office with the required signatures of approval. There are two types of SEA forms you will use for enrollment:
1. MCG Sponsored Course form and (2) Extramural Course Form.

1. Procedure for MCG Sponsored Rotations:
MCG Sponsored rotations require permission of the MCG departmental representative for enrollment. If you are a satellite campus (NE, NW, SE, SW) student, you will need the permission of the campus representative. If you are not a satellite campus student, you will still need to get the satellite campus signature of approval to rotate at their campus. Permission is obtained by completing the MCG Sponsored Course Form (SEA form) and obtaining the required signatures then returning the form to the Curriculum Office for official enrollment.

2. Procedures for Extramural Rotations:
A. Contact the sponsoring institution and obtain and complete their elective application requirements (if appropriate).
B. Following notification of acceptance, you must fill out the Extramural Course form (SEA form) for enrollment and take it to the appropriate department representative. Obtain signature approval for the elective from the departmental representative of the sponsoring MCG department. All off campus electives carry MCG numbers and the MCG department must approve your enrollment.

Departments will require the following information prior to approving an off campus elective:
1. The name and academic title of the faculty member at the offering institution.
2. Curriculum Vitae of the individual, if he or she has not previously taught MCG courses.
3. The name of the person responsible for evaluating your performance during the elective.

4. Dates of elective. You should make every effort to have the dates coincide with the MCG schedule.
5. Any fees charged to visiting students.

C. Return your completed Extramural Course Form (SEA Form) to the Curriculum Office with the required signatures of approval. The person responsible for the off campus course must send an evaluation of your performance to the GRU MCG departmental representative handling the elective (not to the Curriculum Office). The representative will assign a grade (based on the evaluation) and report it to the Registrar’s Office. You are responsible for seeing that this information is transmitted appropriately. No grade, and therefore no credit, can be assigned without an evaluation.

Warning: You are not officially enrolled until you have returned your completed MCG Sponsored/Extramural Course (SEA) Form to the Curriculum Office. We cannot provide retroactive credit for electives in which you are not properly enrolled.

Students accepted to more than one elective that is assigned the same course number are required to fill out the Application for Graduation Credit Form in addition to the Course SEA Form. The electives should be entirely different training experiences. The Senior Associate Dean for Curriculum will rule on all AGC forms submitted and you will be notified via email of the decision. This form must be submitted before the elective begins.

D. Malpractice
1. In the state of Georgia “No student who engages in the practice of medicine under the supervision of a medical facility, academic institution, or doctor of medicine, as a part of an academic curriculum leading to the award of a medical degree, shall be liable for any civil damages as a result of any act or omission in such practice of medicine, except for willful or wanton misconduct.” (Georgia Code 1981, section number 51138, enacted by Ga. L. 1987, p. 363, article number 1.) Effective date: July 1, 1987

2. In the United States but NOT in Georgia students officially enrolled at GRU are covered by Professional Liability Insurance while at U.S. institutions out of the state of Georgia.

IV. Preceptorships
A. A preceptorship must be approved by the appropriate departmental representative.
B. Preceptorships must be at least one month with a maximum duration of two months.
C. The preceptor must submit an evaluation to the departmental representative, who shall assign and report a grade to the Registrar’s Office.
D. The preceptor’s Curriculum Vitae will probably be required by the responsible department.
Check with the department regarding their requirements.

V. Dropping and Adding Electives

Students may change their schedule according to the following policy, which was developed by the Curriculum Committee, and approved by the Dean and Faculty Senate:

An elective may be dropped or added three weeks or more prior to the beginning date of the elective. You may add after the drop/add deadline if your schedule shows vacation and if you have received special permission from the faculty member responsible for the elective. Under no circumstances can you drop an elective after the deadline without penalty (i.e., receipt of a “W” (withdrawn) on the official transcript).

Please post the Drop/Add schedule in a prominent place and take it seriously!

Except for extraordinary circumstances, the above policy will be strictly enforced.

Students must be officially enrolled in an elective to receive credit. Retroactive credit will not be granted.

Use the Course SEA Form to drop/add all rotation requests.

VI. Policy Regarding Off Campus Emergencies

The following policy covers all students who are participating in off campus electives, both inside and outside of the United States, no matter whether the elective is at LCME accredited medical school or not.

Prior to leaving for the elective the student should:
- Provide the Curriculum Office with a contact number for the student during the elective
- Provide the Curriculum Office with an emergency contact phone number in the event that the student is not reachable
- Review the availability of Emergency Medical Services, Hospitals, and Public Health Officials in the location where the student will be during the rotation
- For international trips, the student should review the Study Abroad Office Emergency Procedures as well as comply with all Study Abroad Policies including registration with the US Department of State

During the trip when an Emergency Arises:

For trips outside the United States, follow the Study Abroad Office Emergency Procedures.

For trips inside the United States:

Medical Emergency, injury or Illness:
- For emergencies, dial 911 immediately or go to the Emergency Department in the hospital of the rotation
- Whenever possible, contact or have a representative contact the MCG Curriculum Office (curriculum@gru.edu or 706.721.3217)
- In the event the injury is related to patient care, make sure to follow the procedures of the medical facility

Natural or Man-made Disaster:
- If you are injured or ill, call 911 or seek care at the nearest medical facility
- IF necessary, seek shelter in a safe location, being sure to follow the direction of any local authorities
- Whenever possible, contact or have a representative contact the MCG Curriculum Office (curriculum@gru.edu or 706.721.3217)

Crime:
- If you are injured or ill, call 911 or seek care at the nearest medical facility
- Report the crime to local law enforcement
- Whenever possible, contact or have a representative contact the MCG Curriculum Office (curriculum@gru.edu or 706.721.3217)

VII. Eisenhower Army Medical Center Rotations and other Department of Defense locations

Owing to Department of Defense regulations, non-US citizens are ineligible to apply for rotations at these facilities.

VIII. Regional Campus Designations

- NE - UGA/MCG Partnership - Athens
- NW - Rome
- SE - Savannah
- SW - Albany

IX. Trinity Hospital and University Hospital

Trinity Hospital of Augusta now requires students to pay for and pass a 10-panel drug screen. Students are currently responsible for the fees associated with the screening. Additionally, students must provide the appropriate department coordinator with a copy of their current PPD, signed safety instructions form, signed educational training program agreement form, signed authorization for release of records and information form along with a signed confidentiality statement and a background check that has been conducted within the past two years documenting no criminal history.
Electives

Anesthesiology and Perioperative Medicine

(ALL COURSES IN THE ANESTHESIOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

Professors:
M. Castresana, MD, D. Martin, MD, S. Meiler, MD (Chairman)

Associate Professors:
M. Arthur (Associate Program Director), MBChB, A. Cancel, MD, I. Florentino, J. Mayfield, MD

Assistant Professors:
S. Agarwal, MBBS, M. Basta, MD, T. Boyer, DO, H. Byrd, MD, C. Chaknis, MD, P. Chhatbar, MD, S. Daler, MBBS, R. Donald, MBBS, A. Dua, MD, S. Dwarakanath, MBBS, T. Hong, MD, B. Holman, MD, Y. Hua, MD, PhD, V. Kumar, MBBS, L. Lake, MD, W. Lawson, MD, Z. Patel, MD, A. Qadeer, MBBS, Y. Ranganath, MD, S. Redd, MD, T. Weatherred, MD

Instructors:
P. Rosema, RT, MHSA,

ANES5002 Anesthesiology Research Elective
Location: Anesthesia Research Laboratory
Enrollment: Contact Carol Dickerson, Research Manager (CDICKERSON@gru.edu)
Prerequisites: None
Duration: One to Two Months
Months Offered: All Year (Special Arrangement)

Goals:
To introduce the student to scientific discovery, experimental design, methodology, and data analysis. Our research faculty studies different aspects of sickle cell disease. These areas include the development of gene correction technologies, regulation of hemoglobin expression, cell adhesion, lung injury, and pain research. Our projects are translational in nature, i.e. we use basic science tools and preclinical animal models to study clinically relevant questions.

Objectives:
- Acquire a basic understanding of experimental design, data collection, and analysis.
- Learn how to control experimental data for confounding variables and alternative explanations.
- Appreciate how “scientific thinking” applies directly to clinical decision making.
- Conduct bench experiments under direct supervision.
- Learn new skills in public speaking and presentation of data.
- Explore scientific discovery as a potential career choice.

Activities:
- Participate in weekly formal lab meetings, journal club, and seminars.
- Discuss his/her work daily with other scientists in the group.
- Make a formal presentation of his/her work to the lab at the end of the rotation.
- Have the opportunity to discuss career planning with Dr. Meiler.

Lecture Hrs: Clinic Hrs: 0
Lab Hrs: 8/day Seminar Hrs: 4hrs/month
Other: 0 Small Group Hrs: 1/day

ANES5003 Anesthesiology Preceptorship
Location: Off Campus Elective
Enrollment: Arranged Individually
Duration: One Month
Months Offered: By Arrangement

Goals:
Clinical experience in Anesthesiology at an off campus hospital introducing student to the basic principles of anesthesia; critical care medicine or pain management and development of basic knowledge for the perioperative management of the patient.

Objectives:
At the end of the elective student should have exposure to:
- Basics of perioperative management of patients for both general and regional anesthesia
- Airway management
- Mechanical ventilation
- Patient monitoring
- Hemodynamic management
- Pharmacology & physiology as applied to anesthesia
- Critical Care Management
- Acute & chronic pain management

Activities:
Student should attend all lectures as required by off campus hospital and all other activities as assigned.

Assessment:
Student will be assessed by faculty or resident with whom student is assigned to at the off campus hospital. This elective must be approved by the Residency Coordinator, Susan Dawkins.
ANES 5008 Pain Management Elective
Location: GRU Hospital and Clinics
Enrollment: Maximum: 1
Prerequisites: None
Months Offered: August through June

Goals:
The student will be able to recognize commonly seen acute, chronic and cancer pain conditions as well as develop a basic understanding in pharmacological as well as interventional treatment modalities.

Objectives:
- Obtain a complete history and physical pertinent to the pain patient.
- Present assessment and plan to a multidisciplinary pain team.
- Medical documentation pertinent to pain management.
- Learn basic injection techniques for musculoskeletal pain.
- Develop familiarity with fluoroscopically guided spine injection.
- Master basic injection skills under fluoroscopic guidance.
- Obtain understanding of acupuncture and various indications and techniques.
- Develop an understanding of the different subspecialty roles in the multidisciplinary pain clinic.

Teaching Activities with commitment per week:
- Two complete patient evaluations per day.
- Standardized 360 degree evaluation.
- Weekly pain core lecture series.
- Acute pain rounds Tuesday-Friday.
- Two half-days per week of procedural teaching.
- Independent study.
- Clinical rounds with Pain Psychologist and Clinical Pharmacologist.

Lecture Hrs: 1hr/week  Clinic Hrs: 6hrs/day
Acute pain service: 1hr/day  Lab Hrs: 0
Small group: 0  Seminar: 0

Assessment:
- Clinical Performance Evaluation. (history, physical, documentation, professionalism, system based practice)
- 360 degree evaluation.
- Review of reading assignments.

ANES 5011 Anesthesiology Clerkship
Location: GRU Hospital and Clinics
Enrollment: Minimum: 1, Maximum: 6
Prerequisites: Phase 3 core curriculum rotations
Duration: One Month
Months Offered: August through May

Goals:
To introduce medical students to the basic principles and practice of Anesthesiology and Perioperative medicine.

Objectives:
Common GRU competency-based objectives are based on patient care, medical knowledge, practice-based learning, interpersonal skills and communication, professionalism and system-based practice

At the end of the elective, students will become familiar with the basics of:
- Preanesthetic evaluation and perioperative anesthetic management of the patients.
- Standards for basic anesthetic monitoring and invasive hemodynamic monitoring.
- Airway assessment, airway equipments and the airway management.
- Anatomy, Physiology, and Pharmacology relevant to anesthesiology practice.
- Oxygen therapy and basics of mechanical ventilation.
- Different methods and Pharmacological agents used for general anesthesia and monitored anesthesia care.
- Fluid and Blood therapy during perioperative period
- Different types of regional anesthesia and their perioperative management.
- Basics of acute and chronic pain management
- Standards for postanesthesia care and related problems.

Teaching Activities with time commitment per month:
- Daily assignment with residents to the operating rooms or other locations.
- Educational discussions and interactions with residents and faculty.
- Medical student anesthesiology lecture series.
- Resident conferences and Grand Round lectures.
- Independent reading from suggested list.
- Airway and IV line placement practice workshop.

Lecture Hrs: 12/month
Clinic Hrs: 8hrs/day
Seminar Hrs: 6 Hrs. orientation

Assessment:
- Rotation performance evaluation by residents & faculty.
- Comprehensive written examination.
- Presentation by student on anesthesiology related topic.

Clerkship Director: Ranita Donald, M.D.

ANES 5014 Respiratory Care Elective
Location: GRU Hospital and Clinics
Enrollment: Minimum: 5  Maximum: 25
Prerequisites: None
Duration: One Month
Months Offered: July through April
Goals:
To help students develop the skills necessary to treat patients with respiratory insufficiency, manage a patient
in need of mechanical ventilation or other respiratory therapy modalities as indicated. In addition, to be an active member of the code 99 team.

Objectives:
At the end of the elective students will be able to:
- Know appropriate indications for oxygen therapy and be able to differentiate between the different appliances
- Know which patients will benefit from jet nebulizer and chest physiotherapy
- Describe the appropriate use of BIPAP, how to order it and which patients would benefit
- Identify patients in need of mechanical ventilation
- Know how to write an order to initiate mechanical ventilation
- Able to describe the current modes of mechanical ventilation
- Able to interrupt ventilator waveforms and recommend ventilator changes
- Demonstrate basic life support on manikins
- Identify ventricular fibrillation and demonstrate defibrillation on a manikin
- Identify arrhythmias and know how to treat appropriately according to American Heart protocols

Teaching Activities with time commitment per month:
- Three weeks of respiratory pathophysiology of which two weeks is spent on mechanical ventilation
- One week of Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS)
- BLS/ACLS are optional

Assessment:
- Case presentation
- Active participation in class activities
- Successful completion of American Heart exam for BLS and ACLS

Course Director: Dr. Mafdy Basta 706-721-3871

ANES5016 Anesthesiology Preceptorship
Location: NE/NW/SE/SW Campuses
Enrollment: Must be a residential student assigned to the NE/NW/SE/SW Regional Campus
Prerequisites: None
Duration: One Month
Months Offered: By Arrangement through the NE/NW/SE/SW Campuses and departmental approval

Goals:
Clinical experience in Anesthesiology at a regional campus hospital introducing student to the basic principles of anesthesiology; critical care medicine or pain management and development of basic knowledge for the perioperative management of the patient.

Objectives:
At the end of the elective student should have exposure to:
- Basics of perioperative management of patients for both general and regional anesthesia
- Airway management
- Mechanical ventilation
- Patient monitoring
- Hemodynamic management
- Pharmacology & physiology as applied to anesthesiology
- Critical Care Management
- Acute & chronic pain management

Activities:
Student should attend all lectures as required by off campus hospital and all other activities as assigned.

Assessment:
Student will be assessed by faculty or resident with whom student is assigned to at the off campus hospital.

**Biochemistry and Molecular Biology**

*(ALL COURSES IN THE BIOCHEMISTRY AND MOLECULAR BIOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)*

**BCMB 5002 Research in Biochemistry and Molecular Biology**

- **Location:** MCG, Dept. of Biochemistry and Molecular Biology
- **Enrollment:** As allowed by Department
- **Prerequisites:** BMB 5120
- **Duration:** One to Three Months
- **Months Offered:** By Arrangement. Contact the Department Chair, Ext. 7652 or speak with Ms. Kim Lord, Ext. 7658

**Goals:**
To provide the student an opportunity to train in basic research with direct relevance to the clinical interests of the student.

**Objectives:**
To identify a project addressing an important issue with clinical relevance; to design appropriate experiments to address the issue; to perform the designed experiments and analyze the data.

**Activities:**
Critical evaluation of research articles; design and execution of specific experiments; training and experience in various laboratory techniques; analysis and critical interpretation of experimental data; participation in laboratory weekly meetings and departmental seminars.

**Assessment:** Oral examination

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**Cellular Biology and Anatomy**

*(ALL COURSES IN THE CELLULAR BIOLOGY AND ANATOMY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)*

**ANAT 5002 Research Elective in Anatomy**

- **Location:** MCG, Dept of Cellular Biology and Anatomy
- **Enrollment:** Maximum: 2 per faculty member
- **Prerequisites:** Approval by Faculty member with whom research will be done
- **Duration:** One to Two Months
- **Months Offered:** By Arrangement

**Goals:**
To provide the student an opportunity to learn fundamental methods and experimental design in research related to cellular biology and anatomy. The research activities shall have direct relevance to the clinical interests of the student.

**Objectives:**
To guide the student in the fundamental process of basic science research including the development of a short research proposal, implementation of experimental methods and critical exchange of ideas with other researchers.

**Activities:**
The student will participate in writing a short research proposal relevant to a project in the PI’s lab. The student will gain knowledge of the literature of the field, will obtain training and experience in appropriate laboratory methods, analysis and critical interpretation of experimental data; will participate/attend journal clubs, lab meetings and departmental seminars as deemed appropriate by the PI.

**Assessment:**
The student will submit a well-written, 2-3 page summary of the research describing the hypothesis tested, relevant literature, methods used and data obtained as well as a comprehensive, yet succinct discussion of how the findings obtained add to the bode of knowledge being investigated.

**ANAT 5005 Clinical Anatomy and Teaching Skills**

- **Location:** MCG, Dept of Cellular Biology and Anatomy
- **Enrollment:** Maximum: 24
- **Prerequisites:** Completion of MSIII year
- **Duration:** One Month
- **Months Offered:** September – Early April

**Goals:**
Prepare students for PGY1 by providing:
1.) An opportunity to reexamine anatomy relevant to future specialty training
2.) A mentored teaching experience among first year medical students in the gross anatomy lab

**Objectives:**
By the end of the elective, students will be able to:
- Review and expand anatomical knowledge relevant to a chosen field through dissection and independent study
- Confidently teach regional gross anatomy
- Explain the anatomical basis of common clinical findings and clinical practice
- Implement sound pedagogical practices when teaching trainees and communicating with colleagues, including: content expertise, organization, non-verbal communication, providing feedback, and fostering active learning.
- Model professionalism by working together as a team.

**Activities:**
Students will be assigned a team according to their area of interest: Musculoskeletal (MSK), Thorax/Abdomen/Pelvis (TAP), Head and Neck (H&N).

Individuals will:
- Teach a minimum of five 3-hour labs according to their interest and availability among the 30 labs included in the first year course: MSK (14), Thorax(3), Abdomen (4), Pelvis (2), Head and Neck (7). Students will attend lecture preceding each lab.
- Attend or complete 2-3 live or online seminars or workshops relevant to medical education covering such topics as pedagogy, giving feedback, communication skills, educational planning and organization.
- Clearly communicate availability to anatomy faculty and first year students using IT systems.

Each team will:
- Dissect available anatomical material to review anatomy and prepare prosections for teaching in the first year anatomy lab course. Prosections will be completed for each lab.
- Present prosections to faculty giving an overview of the dissection and explain the clinical relevance of anatomical knowledge.
- Lead small group lab reviews and office hours the week prior to exams using the cadaver, osteology, cross-sections, and radiology. Each student will schedule 15 hours minimum of teaching time (reviews or office hours). Nights and weekends are preferable.

Assessment:
Students will receive a grade of A,B,C,D or F based on their performance in the following 4 areas:
- Preparing and presenting prosections
- Teaching 5 Labs
- Leading 15 hours of lab review the week prior to exams
- Attending/Completing 2 workshops on medical education

Contact Person:
William Pearson, PhD, Department of Cellular Biology and Anatomy at GRU WPEARSON@gru.edu.

Participation in this elective must be approved by William Pearson, PhD, Department of Cellular Biology and Anatomy.

Lecture Hrs: 1.25 Lab Hrs: 9.5
Seminar Hrs: .5 hrs Small Group : 3.75

**Emergency Medicine**
(ALL COURSES IN THE EMERGENCY MEDICINE DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

**EMED 5001 Emergency Medicine Clerkship**
EMED 5001 Emergency Medicine Clerkship – For Georgia Regents University medical students only. Visiting students choose EMED 5010 (Civilian) or EMED 5011 (Military)

Students rotating at Georgia Regents Health Systems hospital choose between EMED 5001E and EMED 5001P.

EMED 5001E – Stationed in the Emergency Department at Georgia Regents Health Systems hospital, this rotation consists of approximately 75% Adult clinical shifts and 25% Pediatric clinical shifts. EMED 5001E is designed for medical students whose career medical specialty will primarily care for adult patients or students who simply want an adult heavy EMED experience.

EMED 5001P – Stationed in the Emergency Department at Georgia Regents Health Systems hospital, this rotation consists of approximately 25% Adult clinical shifts and 75% Pediatric clinical shifts. EMED 5001P is designed for medical students whose career medical specialty will primarily care for pediatric patients or students who simply want a pediatric heavy EMED experience.

Location: GRU Emergency Department (Trinity Hospital of Georgia, Dwight D. Eisenhower Hospital at Ft Gordon, Charlie Norwood VA Medical Center, Tift General in Tifton GA, Candler/St. Joseph in Savannah GA, Phoebe Putney in Albany GA, and Northeast Georgia Medical Center in Gainesville GA are alternate ED sites and considered “on campus”). Sites are subject to change. Students are preferentially assigned to alternate ED sites. When sites are filled or if the student does not indicate a site preference six weeks in advance of the beginning date, a site will be randomly assigned. Housing is provided at very remote sites with at least six weeks notification. The student may not drop the selective less than 6 weeks before beginning the rotation once assigned to a site with housing provisions.

Enrollment: Maximum: 14
Prerequisites: Completion of all Phase 3 Core Curriculum Rotations except Neurology
EAMC/DOD locations must be a US citizen
Duration: 4 weeks
Months Offered: July through June

Goals:
To attain an overview of the specialty of Emergency Medicine and gain insight into the assessment and management of emergent patients.

Objectives:
At the end of the rotation, the student will be able to:
• Recognize life-threatening conditions and distinguish them from non-emergent conditions in an undifferentiated population of patients
• Perform a focused history and physical examination and present that information in an efficient manner
• Formulate a relevant diagnostic differential list
• Organize and propose a work up of urgent medical conditions
• Perform basic medical procedures, including simple suturing
• Attempt to interpret basic lab results and radiographs
• Create a treatment plan and propose a proper disposition of presenting patients
• Function as a patient advocate and teach patients and families about the illness at hand, as well as prevention

Activities:
The rotation provides ample clinical experience, patient contact, and procedures. The schedule includes approximately 40 hours of patient contact a week plus didactics. Clinical instruction in the initial evaluation and stabilization of the acutely ill and injured patient will be provided by working alongside Emergency Medicine faculty (and residents at some sites) who are present 24 hours a day. Patient logs must be kept and there are required procedures. Students will work a variety of shifts including days, evenings and nights, including some weekends.

The “Emergency Procedures Course” (EPC) was added to the course curriculum in 2011. The EPC gives students online PowerPoint and video based education followed by hands-on simulation based training for common life saving procedures (central line, intravenous line, intubation, cricothyrotomy, thoracostomy, bag valve mask etc.).

Lecture Hrs: 7-10/Wk
Clinic Hrs: 40/Wk, available 24/7
Seminar Hrs: 3 hrs orientation

Mini-Electives:
One day Mini-Electives are offered in various emergency medicine specialty areas including:
- Ultrasound
- Disaster Medicine (online course)
- EMS

Assessment:
• Clinical performance with evaluations during each shift
• Online D2L Emergency Medicine Curriculum
• NBME Final examination

More information can be obtained by contacting Dr. Bradford Reynolds or Ms. Maria Swires in the Department of Emergency Medicine, GRU Ext. 4412. Call same extension to indicate site preference.

EMED 5002 Emergency Medicine Sub-Internship
Location: GRU Emergency Department
Enrollment: 2

Prerequisites: EMED 5001
Duration: 4 weeks
Months Offered: July through June

Goals:
To provide the student who will be entering Emergency Medicine residency a course to demonstrate their ability to perform as an Intern.

Objectives:
• To develop skills related to focused history taking and physical exam conducive to the practice of Emergency Medicine
• To develop a better foundations of knowledge regarding Emergency Medicine as a transition to an Emergency Medicine Residency.

Activities:
Students will serve as a sub-intern in the Emergency Department seeing patients primarily and staffing with an attending physician. The student assumes the primary medical care responsibilities for patients in the Emergency Department and is supervised by Emergency Medicine faculty. The Sub-I will work independent of EM resident input, working with specified EM faculty over the Sub-I month. Students will present a lecture to the residency classes during the grand rounds. Students will rotation on a local ambulance service for two shifts.

Evaluation: Evaluation of student’s performance will be 80% clinical assessment by the attendings involved and 20% on their presentation to the residency.

EMED 5004 Research in Emergency Medicine
Location: GRU Department of Emergency Medicine
Enrollment: 4-8 per year
Prerequisites: Approval by faculty member with whom research will be done
Duration: One Month
Months Offered: By arrangement

Goals:
To introduce the basic concepts of research in the emergency department setting.

Objectives:
• Learn the steps required to formulate and conduct a clinical research project
• Become an expert in a defined area of interest
• Learn how to search the literature beyond a simple Medline query
• Produce an abstract for presentation at a regional or national meeting

Activities:
Students will choose a research topic with the aid of the department research director, who will match them to an appropriate faculty member within the Department of EM. The students will perform a literature search and produce a short written research proposal for approval by the Human Assurance Committee. With the aid of the faculty advisor and a research statistician, the student will conduct the research project, analyze the data, and create a one paragraph abstract describing the research findings. In some cases the department may have well
developed research projects that require additional assistance. These projects may also be undertaken to fulfill the requirements of the elective.

**Hours:** Variable with individual instruction and interaction with faculty advisor and research director.

**Assessment:**
Student grades will be assigned jointly by the research director and the student’s faculty research mentor. No grade will be assigned until the work is summarized in an abstract.

Students receive a maximum of one month credit for the course. Students should expect the work extend beyond a single month. Contact person is Dr. Jim Wilde at 706-533-2925.

**EMED 5005 Emergency Medicine Externship Off-Campus**

**Location:** Off campus elective. It will be arranged by the student with an off site hospital which accepts off campus students for an Emergency Medicine rotation.

**Enrollment:** Max: 1 per location

**Prerequisites:** Phase 3 Core Curriculum and EM 5001, EM 5003, PEDS 5016, or EM 5012

**Duration:** 4 Weeks

**Months Offered:** July through June

**Goals:**
This second EM rotation allows interested students to gain further experience and insight into the EM specialty by seeing practice in a different location with different disease incidences and different approaches in management of patients.

**Objectives:**
The student will be able to:
- Confidently recognize life-threatening conditions and distinguish them from non-emergent conditions in an undifferentiated population of patients.
- Perform a focused history and physical examination more rapidly and present that information in an effective manner.
- Formulate an appropriate diagnostic differential list.
- Organize and initiate the work up of urgent medical conditions.
- Perform basic medical procedures, including simple suturing. Perform other procedures as available.
- Interpret basic lab results and radiographs
- Create and implement a treatment plan and proper disposition of presenting patients.
- Function as a patient advocate and teach patients and families about the illness at hand, as well as prevention

**Activities:**
Teaching materials will be provided by the chosen facility. The rotation should provide ample clinical experience, patient contact, and procedures. Some sites may have dedicated procedure practice sessions. Clinical instruction in the initial evaluation and stabilization of the acutely ill and injured patient will be provided by working alongside Emergency Medicine faculty (and possibly residents) who are present 24 hours a day. Students will work a variety of shifts including days, evenings and nights, including some weekends.

**Lecture Hrs:** Variable depending on location

**Clinic Hrs:** 40/Wk, available 24/7

**Seminar Hrs:** Approx. 3 hrs orientation

**Other:** Variable depending on location

**Assessment:**
Will be based entirely upon the grading mechanism at the off campus site. There may be presentation and examination requirements.

The student must obtain a written letter of approval from the site before a “SEA Form” can be approved. More information can be obtained by contacting Dr. Bradford Reynolds or Ms. Maria Swires in the Department of Emergency Medicine, GRU Ext. 4412.

**EMED 5007 International and Travel Medicine MCG Students Only**

**Location:** To be arranged. Although the elective is listed under Emergency Medicine, any specialty may be selected (e.g. ophthalmology, family medicine, neurology, tropical medicine, etc.)

**Prerequisites:** Ideally, Phase 3 Core Curriculum, to maximize the clinical experience; however, the elective may be selected at any time.

**Duration:** 4 weeks

**Months Offered:** By arrangement

**Goals:**
This elective will broaden the student’s awareness of illness and medical practice outside the US. This may include experiences ranging from teaching hospital practices in fully industrialized nations to remote villages in underdeveloped countries.

**Objectives:**
The student will be able to:
- Prepare for travel, including passports, visa, immunizations
- Discuss cultural uniqueness of the host country and how this affects health care
- Depending on the experience, be able to prepare potable water and choose safe foods
- Depending on the site, be able to set up and participate in management of a mobile clinic
- Depending in the experience, be able to perform simple tests in a field laboratory
- Recognize illnesses not endemic to the US
- Some students will be able to improve their foreign language skills as they work with translators seeing and treating patients

**Activities:**
This will be a supervised clinical experience with students engaging in patient care under the direct supervision of faculty trained and familiar with travel medicine, clinical tropical medicine, and medicine in the
In light of the unlimited possibilities, the course director or more months in advance. A number of lectures and reading materials are required as appropriate to traveling in developing nations. Some six months planning and interaction with the course director/team leader must occur before the beginning of the rotation month to begin vaccinations, plan travel and organize supplies. Students will be responsible for all costs, e.g. airfare and ground expenses.

### EMED 5008 Emergency Ultrasound Elective

**Location:** GRU Hospital and Clinics  
**Enrollment:** Maximum: 4 students  
**Prerequisites:** EMED 5001  
**Duration:** 7 months  
**Months offered:** September thru March

**Goals:**  
This year long elective is structured to give the participant an introduction to the use of Emergency Ultrasound in the emergency department. In the near future, many clinicians will be using ultrasound at the bedside to make clinical decisions and diagnosis.

**Objectives:**  
The student will:
- Discuss the basic principles and physics of sonography  
- Be introduced to the basic emergency ultrasound exams: gall bladder, aorta, evaluation of deep venous thrombosis, first trimester exams in pregnancy, endovaginal gynecology exams, superficial applications including vascular access, renal sonography, and sonography for trauma.

**Activities:**  
This course will consist of 7 months of instruction and hands-on practice. The initial course begins in July lasting 16 hours over 2 days and includes lectures and hands-on practice with human models. Each month thereafter consists of a two hour lecture and discussion and two eight hour shifts in the ED practicing EUS skills. Required readings will be provided. It is recommended that the student take EMED 5001 during July in order to be available for the 16 hour course. The student will work one-on-one with one of the course directors to practice ultrasound skills while in the emergency department. Students may spend more time with the instructor during each month, but two 8 hours shifts are required. If more than 3 people apply for the course, selection will be made based on completion of the requirements and an interview.

**Assessment:** Exams will be given each month following a dedicated lecture  
- Clinical performance with evaluations

Contact person in Emergency Medicine is Dr. Matt Lyon at 706-533-2936.

### EMED 5010 Emergency Medicine Clerkship

**Location:** GRU Emergency Department  
**EMED 5010 is for VISITING CIVILIAN students only. All applications are processed through VSAS.**
Enrollment: Maximum: Varies depending upon availability

Prerequisites: Completion of all Phase 3 Core Curriculum Rotations except Neurology
EAMC/DOD locations must be a US citizen

Duration: 4 weeks

Goals:
To attain an overview of the specialty of Emergency Medicine and gain insight into the assessment and management of emergent patients.

Objectives:
At the end of the rotation, the student will be able to:
- Recognize life-threatening conditions and distinguish them from non-emergent conditions in an undifferentiated population of patients
- Perform a focused history and physical examination and present that information in an efficient manner
- Formulate a relevant diagnostic differential list
- Organize and propose a work up of urgent medical conditions
- Perform basic medical procedures, including simple suturing
- Attempt to interpret basic lab results and radiographs
- Create a treatment plan and propose a proper disposition of presenting patients
- Function as a patient advocate and teach patients and families about the illness at hand, as well as prevention

Activities:
The rotation provides ample clinical experience, patient contact, and procedures. The schedule includes approximately 40 hours of patient contact a week plus didactics. Clinical instruction in the initial evaluation and stabilization of the acutely ill and injured patient will be provided by working alongside Emergency Medicine faculty (and residents at some sites) who are present 24 hours a day. Patient logs must be kept and there are required procedures. Students will work a variety of shifts including days, evenings and nights, including some weekends.

The “Emergency Procedures Course” (EPC) was added to the course curriculum in 2011. The EPC gives students online PowerPoint and video based education followed by hands-on simulation based training for common life saving procedures (central line, intravenous line, intubation, cricothyrotomy, thoracostomy, bag valve mask etc.).

Lecture Hrs: 7-10/Wk
Clinic Hrs: 40/Wk, available 24/7
Seminar Hrs: 3 hrs orientation

Mini-Electives:
One day Mini-Electives are offered in various emergency medicine specialty areas including:
- Ultrasound
- Disaster Medicine (online course)

EMS

Assessment:
- Clinical performance with evaluations during each shift
- Online D2L Emergency Medicine Curriculum
- DEPARTMENTAL Final examination

More information can be obtained by contacting
Ms. Maria Swires (maswires@gru.edu) or
Dr. Bradford Reynolds (breynolds@gru.edu)
Department of Emergency Medicine, Georgia Regents University
Office #706-721-4412.

EMED 5011 Emergency Medicine Clerkship for Military Applicants
EMED 5011 is for VISITING MILITARY students only. All applications are processed through VSAS. Military students please contact Maria Swires (maswires@gru.edu) for additional detail on site availability.

Locations: GRU Emergency Department, Dwight D. Eisenhower Hospital at Ft Gordon, Charlie Norwood VA Medical Center

Enrollment: Maximum: Varies depending upon availability

Prerequisites: Completion of all Phase 3 Core Curriculum Rotations except Neurology
EAMC/DOD locations must be a US citizen

Duration: 4 weeks (2 week non-graded rotations are available for military residents)

Goals:
To attain an overview of the specialty of Emergency Medicine and gain insight into the assessment and management of emergent patients.

Objectives:
At the end of the rotation, the student will be able to:
- Recognize life-threatening conditions and distinguish them from non-emergent conditions in an undifferentiated population of patients
- Perform a focused history and physical examination and present that information in an efficient manner
- Formulate a relevant diagnostic differential list
- Organize and propose a work up of urgent medical conditions
- Perform basic medical procedures, including simple suturing
- Attempt to interpret basic lab results and radiographs
- Create a treatment plan and propose a proper disposition of presenting patients
- Function as a patient advocate and teach patients and families about the illness at hand, as well as prevention

Activities:
The rotation provides ample clinical experience, patient contact, and procedures. The schedule includes approximately 40 hours of patient contact a week plus didactics. Clinical instruction in the initial evaluation and stabilization of the acutely ill and injured patient will be provided by working alongside Emergency Medicine faculty (and residents at some sites) who are present 24 hours a day. Patient logs must be kept and there are required procedures. Students will work a variety of shifts including days, evenings and nights, including some weekends.

The “Emergency Procedures Course” (EPC) was added to the course curriculum in 2011. The EPC gives students online PowerPoint and video based education followed by hands-on simulation based training for common life saving procedures (central line, intraosseous line, intubation, cricothyrotomy, thoracostomy, bag valve mask etc.).

Lecture Hrs: 7-10/Wk
Clinic Hrs: 40/Wk, available 24/7
Seminar Hrs: 3 hrs orientation

Mini-Electives:
One day Mini-Electives are offered in various emergency medicine specialty areas including:
- Ultrasound
- Disaster Medicine (online course)
- EMS

Assessment:
- Clinical performance with evaluations done for each shift
- Online D2L Emergency Medicine Curriculum
- DEPARTMENTAL Final examination

More information can be obtained by contacting Ms. Maria Swires (maswires@gru.edu) or Dr. Bradford Reynolds (breynolds@gru.edu)
Department of Emergency Medicine, Georgia Regents University
Office #706-721-4412.

**EMED 5013 Rural or Regional Campus**

**Emergency Medicine Elective Off-Campus**

Location: NE/NW/SE/SW campus
NW – Floyd Medical Center, Dr. Cline
Jackson, Redmond Medical Center – Dr. Moy
SW - Tift Regional Hospital, Dr. David Ferner
NE/SE – Check with your campus coordinator

Enrollment: 1 student at a time

Must be a residential student assigned to the NE/NW/SE/SW Regional Campus

Prerequisites: None

Duration: 4 weeks

Credit Hours: 7 Credit Hours

Months Offered: July through June

Goals:
To attain an introduction of the specialty of Emergency Medicine practiced in a rural underserved area and gain insight into the assessment and management of emergent patients.

Objectives:
At the end of this rotation the student will be able to:
- Provide triage for patients presenting to the emergency department
- Describe the services provided by EMS and Paramedics outside of the ER
- Recognize life-threatening conditions and distinguish them from non-emergent conditions in an undifferentiated population of patients.
- Develop their skills in performing a focused history and physical examination
- Perform basic procedures such as starting IVs, phlebotomy, ECGs
- Formulate a relevant diagnostic differential list
- Organize and propose a work up of urgent medical conditions
- Create a treatment plan and propose a proper disposition of presenting patients
- Function as a patient advocate and teach patients and families about the illness at hand, as well as prevention

Activities:
The rotation will provide ample clinical experience, patient contact, and procedures. The schedule includes approximately 34-36 hours of patient contact per week. Students will spend at least one session with a triage nurse in the ED. Students will ride one shift with EMS and one with paramedics during this rotation. Clinical instruction in the initial evaluation and stabilization of the acutely ill and injured patient will be provided by working alongside Emergency Medicine faculty who are present 24 hours a day. Students will work a variety of shifts including days, evenings and nights, including some weekends, comprising a total of fifteen 9-hour shifts.

Lecture Hrs: Variable depending on location
Clinic Hrs: 34-36 hours/Wk, available 24/7
Other: Variable depending on location

Assessment:
- Clinical performance with evaluations during each shift.
- Oral presentation of a medical topic with EM relevance.

**Note that participation in this elective does NOT satisfy the requirement of EMED 5001 in the 4th year.**

**Family Medicine**

(ALL COURSES IN THE FAMILY MEDICINE DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

**FMPC 5003 *Preceptorship in Family Medicine**

Location: Private Family Practices located throughout the State of Georgia
Enrollment: Minimum: 1 Maximum: Unlimited
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
To provide the student with a supervised experience in the evaluation and management of patients with undifferentiated clinical problems encountered in the practice of Family Medicine.

Objectives:
At the end of this elective, the student will:
- Have been exposed to the office practice of family medicine, hospital rounds, house calls, emergency room visits, and selected community activities.
- Be able to recognize the importance of health maintenance.
- Recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to identify the health resources available in the community.

Activities:
Lecture Hrs: Lab Hrs: Small Groups: Clinic Hrs: 40 to 50 Hrs/Wk Seminar Hrs: Other:

Assessment:
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

FMPC 5006 Geriatric Patient in the Nursing Home
Location: Georgia War Veterans Nursing Home Augusta, Georgia
Enrollment: Minimum: 1 Maximum: 1
Prerequisites: FMPC 5000 or Medicine Core
Duration: One Month
Months Offered: July through June

Goals:
To expose the student to the wide variety of medical, social, psychiatric and institutionally related problems in the geriatric patient confined to a nursing facility commonly encountered by the primary care physician.

Objectives:
At the end of this elective, the student will be able to:
- Take responsibility for the continuing and comprehensive care of patients in the nursing home setting under close supervision from faculty and residents.
- Have an understanding of common geriatric health problems and become acquainted with diagnostic and management requirements of this patient population.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to identify the health resources available in the community.

Activities:
Lecture Hrs: 5 Hrs/Wk Lab Hrs: Small Group: Clinic Hrs: 40 Hrs/Wk Seminar Hrs: Other:

Assessment:
Clinical performance evaluation by faculty is based on student’s performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

FMPC 5004 Clinical and/or Research Elective in Family Medicine
Location: Off Campus or Dept. of Family Medicine, GRU
Enrollment: Minimum: 1 Max: Unlimited
Prerequisites: None
Duration: One Month
Months offered: July through June

Goals:
To provide the student with the ability to pursue special educational activities with family medicine preceptors, residencies, or faculty.

Objectives:
At the end of this elective, the student will have had the opportunity to:
- Develop a special educational course in patient care, research, psychosocial aspects of medicine, drug dependency, family therapy and/or other issues related to the provision of health care to families.
**FMPC 5007 *Family Medicine Residency Externship Rome, GA**

**Location:** Family Medicine Residency Program  
Floyd Medical Center  
304 Shorter Avenue, Suite 201  
Rome, GA 30165

**Enrollment:** Minimum: 1  
Maximum: 1

**Prerequisites:** Phase 3 Core Curriculum

**Duration:** One Month

**Months Offered:** July through June

**Goals:** To help the student develop the skills necessary to function as a successful extern in the inpatient and ambulatory setting of family medicine.

**Objectives:**
At the end of this elective, the student will:
- Be able to take responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient setting under close supervision from faculty and residents.
- Have an understanding of longitudinal care in the setting of Family Medicine.
- Be exposed to other specialty/subspecialty areas of particular interest to the individual student.
- Be able to recognize the importance of health maintenance.
- Be able to recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to recognize medical emergencies, establish health care priorities and use proper consultation to aid in patient management.
- Be able to provide patient care through appropriate diagnostic therapeutic management based on an awareness of cost.
- Be able to identify the health resources available in the community.

**Activities:**
- Lecture Hrs: 10 Hrs/Wk  
- Clinic Hrs: 40 to 50 Hrs/Wk  
- Lab Hrs:  
- Seminar Hrs:  
- Small Group:  
- Other:  
- Call: Every 5-6 night

**Assessment:**
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

For further information contact: Lebron McBride., Family Practice Residency Training Program, Floyd Medical Center, Rome, Georgia. Telephone: (706) 509-3343.  
(Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact the Medical Student Curriculum Coordinator, Ext. 4075.)

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**FMPC 5008 *Family Medicine Residency Externship Columbus, GA**

**Location:** Family Medicine Residency Program  
The Medical Center  
1900 Tenth Avenue, Suite 100  
Columbus, GA 31902

**Enrollment:** Minimum: 1  
Maximum: 1

**Prerequisites:** Phase 3 Core Curriculum

**Duration:** One month

**Months Offered:** July through June

**Goals:** To help the student develop the skills necessary to function as a successful extern in the inpatient and ambulatory setting of family medicine.

**Objectives:**
At the end of this elective, the student will:
- Be able to take responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient setting under close supervision from faculty and residents.
- Have an understanding of longitudinal care in the setting of Family Medicine.
- Be exposed to other specialty/subspecialty areas of particular interest to the individual student.
- Be able to recognize the importance of health maintenance.
- Be able to recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to recognize medical emergencies, establish health care priorities and use proper consultation to aid in patient management.
- Be able to provide patient care through appropriate diagnostic therapeutic management based on an awareness of cost.
- Be able to identify the health resources available in the community.

**Activities:**
- Lecture Hrs: 10 Hrs/Wk  
- Clinic Hrs: 40 to 50 Hrs/Wk  
- Lab Hrs:  
- Seminar Hrs:  
- Small Group:  
- Other:  
- Call: Every 5-6 night

**Assessment:**
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

For further information contact: Dr. Janine Burgher-Jones, Clerkship Director, Dept. of Family Practice, The Medical Center, Columbus, Georgia, telephone: (706) 571-1145.  
(Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact the Medical Student Curriculum Coordinator, ext. 4075.)
FMPC 5009 *Family Medicine Residency Externship Savannah, GA

Location: Family Medicine Residency Program
Memorial Health University Medical Center
1107 East 66th Street
Savannah, GA 31404

Enrollment: Minimum: 1 Maximum: 1
Prerequisites: Phase 3 Core Curriculum
Duration: One month
Months Offered: July through June

Goals:
To help the student develop the skills necessary to function as a successful extern in the inpatient and ambulatory setting of family medicine.

Objectives:
At the end of this elective, the student will:
- Be able to take responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient setting under close supervision from faculty and residents.
- Have an understanding of longitudinal care in the setting of Family Medicine.
- Be exposed to other specialty/subspecialty areas of particular interest to the individual student.
- Be able to recognize the importance of health maintenance.
- Be able to recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to recognize medical emergencies, establish health care priorities and use proper consultation to aid in patient management.
- Be able to provide patient care through appropriate diagnostic therapeutic management based on an awareness of cost.
- Be able to identify the health resources available in the community.

Activities:
Lecture Hrs: 10 Hrs/Wk Clinic Hrs: 40 to 50 Hrs/Wk
Lab Hrs: Seminar Hrs: Small Group: Other:
Call: Every 5-6 night

Assessment:
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning. For further information contact: Cindy Carter, MD, Memorial Health University Medical Center, Savannah, Georgia. Telephone: (912) 350-8638. (Participation in this elective must be applied for and approved through the VSAS (visiting student) application system and arranged through and approved by the Educational Coordinator at Memorial Health University Medical Center, Leigh Anne Kirkland, 912/350-8076 and the Department of Family Medicine, Medical College of Georgia; contact the Medical Student Curriculum Coordinator, ext. 4075.)

FMPC 5010 *Rural Family Medicine Externship

Location: Tri-County Health System, Inc.
Warrenton, Crawfordville, Gibson and Sparta, Georgia

Enrollment: Minimum: 1 Maximum: 1
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
To provide the student with an in-depth exposure to the broad range of medical problems confronting the family physician in a rural environment.

Objectives:
At the end of this elective, the student will be able to:
- Evaluate and manage patients with undifferentiated health problems in a rural setting.
- Perform a complete and comprehensive patient history and physical.
- Develop an understanding and appreciation for the uniqueness of rural health care practice.
- Gain the confidence of patients by meeting their health needs appropriately.
- Identify the health resources available in the community.

Activities:
Lecture Hrs: 5 hrs/ wk Clinic Hrs: 40 to 50 hrs/wk
Lab Hrs: Seminar Hrs: Small Group: Other:
Call: Every 5-6 night

Assessment:
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

(Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact the Medical Student Curriculum Coordinator, ext. 4075.)

FMPC 5011* Sub-Internship in Inpatient Family Medicine

Location: Family Medicine Inpatient Service
Medical College of Georgia

Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
To provide the student with an in-depth exposure to the broad range of medical problems confronting the family physician in a hospital environment and prepare for internship.

Objectives:
At the end of this elective, the student will be able to:
- Assume responsibility for the primary medical care of patients on the Family Medicine
Inpatient Service under close supervision from faculty and residents.

- Perform a complete and comprehensive admission patient history and physical.
- Develop an appropriate discharge plan.
- Be able to recognize the importance of health maintenance.
- Be able to recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to recognize medical emergencies, establish health care priorities and use proper consultation to aid in patient management.
- Be able to provide patient care through appropriate diagnostic therapeutic management based on an awareness of cost.
- Be able to identify the health resources available in the community.

### Activities:
- Lecture Hrs: 10 Hrs/Wk
- Clinic Hrs: 40 to 50 Hrs/Wk
- Lab Hrs: Seminar Hrs:
- Small Group: Other:
- Call: Every 5-6 night

### Assessment:
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

Further information regarding this elective may be obtained from Bruce M. LeClair, M.D., Director of the Family Medicine Inpatient Service, 706/721-4674. (Participation in this elective must be arranged through and approved by the Department of Family Medicine, Medical College of Georgia; contact the Medical Student Curriculum Coordinator, ext. 4075.)

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**FMPC 5013 *Family Medicine Residency Externship Albany, GA**

**Location:** Southwest Georgia Family Medicine Residency Program
- Phoebe Putney Memorial Hospital
- 2336 Dawson Road, Suite 2200
- Albany, GA 31707

**Enrollment:** Minimum: 1 Maximum: 1

**Prerequisites:** Phase 3 Core Curriculum

**Duration:** One Month

**Months Offered:** July through June

**Goals:**
To help the student develop the skills necessary to function as a successful extern in the inpatient and ambulatory setting of family medicine.

**Objectives:**
At the end of this elective, the student will:
- Be able to take responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient setting under close supervision from faculty and residents.

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**FMPC 5014*Family Medicine Residency Externship Morrow, GA**

**Location:** Atlanta Medical Center
- Family Practice Residency Program
- 1000 Corporate Center Drive
- Suite 200
- Morrow, GA 30260

**Enrollment:** Minimum: 1 Maximum: 1

**Prerequisites:** Phase 3 Core Curriculum

**Duration:** One Month

**Months Offered:** July through June

**Goals:**
To help the student develop the skills necessary to function as a successful extern in the inpatient and ambulatory setting of family medicine.

**Objectives:**
At the end of this elective, the student will:
- Take responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient setting under close supervision from faculty and residents.
- Incorporate the principles of Community Oriented Primary Care in the management of their patients.
- Have an understanding of longitudinal care in the setting of Family Medicine.
- Be exposed to other specialty/subspecialty areas of particular interest to the individual student.
- Be able to recognize the importance of health maintenance.
- Be able to recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to identify the health resources available in the community.

**Activities:**
- Lecture Hrs: 10 Hrs/Wk
- Clinic Hrs: 40 to 50 Hrs/Wk
- Lab Hrs: 40 Hrs/Wk
- Seminar Hrs: Other
- Small Group: Other
- Call: Every 5-6 night

**Assessment:**
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

For further information contact: Mark A. McElhannon, M.D., Student Coordinator, Family Practice Residency Program, Atlanta Medical Center, Morrow, Georgia. Telephone: (770) 968-2787. (Participation in this elective must be approved by the Department of Family Medicine, GRU. Contact the Medical Student Coordinator, ext 1-4075.)

**FMPC 5015 Primary Care Sports Medicine**

**Location:** GRU Sports Medicine Center or Sports Medicine Associates of Augusta, Georgia

**Enrollment:** Minimum: 1 Maximum: 1 (per site)

**Prerequisites:** Completion of Core Rotations

**Duration:** One Month

**Months Offered:** July through June

**Goals:**
To provide the student a clinical experience in Sports Medicine.

**Objectives:**
At the end of this elective, the student will:
- Be exposed to a wide range of sports medicine problems.
- Receive clinical experience as well as participate in the field side medical coverage of various sporting events in the community.
- Be able to evaluate patients and perform thorough musculoskeletal physical examinations.
- Be familiar with the management of common sports medicine injuries.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
- Be able to identify the health resources available in the community.

**Activities:**
- Lecture Hrs: 10 Hrs/Wk
- Clinic Hrs: 40 Hrs/Wk
- Lab Hrs: 40 Hrs/Wk
- Seminar Hrs: Other
- Small Group: Other
- Call: Every 5-6 night

**Assessment:**
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

(Participation in this elective must be approved by the Medical Student Coordinator, Department of Family Medicine, and MCG.)

**FMPC 5016 *Family Medicine Residency Externship Waycross, GA**

**Location:** Blackshear Family Practice Okefenokee Satilla Regional Family Practice Residency Program Satilla Regional Medical Center 410 Darling Avenue Waycross, GA 31501

**Enrollment:** Minimum: 1 Maximum: 1

**Prerequisites:** Phase 3 Core Curriculum

**Duration:** 1 month

**Months Offered:** July through June

**Goals:**
To help the student develop the skills necessary to function as a successful extern in the inpatient and ambulatory setting of family medicine.

**Objectives:**
At the end of this elective, the student will:
- Be able to take responsibility for the continuing and comprehensive care of patients in both the ambulatory and inpatient setting under close supervision from faculty and residents.
- Have a working knowledge of rural family medicine.
- Be familiar with the care of the patient in the nursing home setting.
- Be exposed to other specialty/subspecialty areas of particular interest to the individual student.
- Be able to recognize the importance of health maintenance.
- Be able to recognize the importance of being the physician of first contact.
- Be able to gain the confidence of patients by meeting their health needs appropriately.
• Be able to recognize medical emergencies, establish health care priorities and use proper consultation to aid in patient management.
• Be able to provide patient care through appropriate diagnostic therapeutic management based on an awareness of cost.
• Be able to identify the health resources available in the community.

Activities:
Lecture Hrs: 10 Hrs/Wk  Clinic Hrs: 40 to 50 Hrs/Wk
Lab Hrs:  Seminar Hrs: 
Small Group:  Other: 
Call: Every 5-6 night

Assessment:
Clinical performance evaluation by faculty is based on student’s performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

Unique Characteristic of the Elective: Exposure to Family Medicine in a rural setting.

For further information contact the Residency Program Coordinator (912) 287-4168. (Participation in this elective must be approved by the Department of Family Medicine, MCG. Contact the Medical Student Coordinator, ext 1-4075.)

**FMPC 5018 Salvation Army Homeless Medical Clinic**

Location: Department of Family Medicine, GRU and Salvation Army Homeless Medical Clinic, Augusta, Georgia
Enrollment: Maximum: 1
Prerequisites: None
Duration: One Month
Months Offered: July through June

Goals:
To provide the student with an understanding of the problems facing the homeless population and their health care.

Objectives:
At the end of this elective, the student will:
• Be able to provide health care to the homeless population at the Salvation Army Medical Clinic and St. Vincent DePaul Clinic.
• Develop understanding through participation in weekly lecture/discussions on topics addressing events leading to a person becoming homeless and disease and illness in the homeless population.
• Complete a project related to health care and the homeless and formally present it to the course director, students and other interested parties which could lead to publication.
• Be able to gain the confidence of patients by meeting their health needs appropriately.
• Be able to identify the health resources available in the community.

Activities:
Lecture Hrs: 5 Hrs/Wk  Clinic Hrs: 30 Hrs/Wk
Lab Hrs:  Seminar Hours:
Small Group:  Other:

Assessment:
Clinical performance evaluation by faculty is based on student’s performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

(Allergy Immunology Elective: See PEDS 5006)
Cardiology

GMED 5017 Cardiology Consultation Service
Location: GRU Hospital and Clinics
Augusta, GA
Enrollment: Maximum: 3
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

Objectives:
Knowledge:
- Indications for common non-invasive and invasive cardiac investigations.
- Indications and methods of cardiac assessment prior to non-cardiac surgery.
- Diagnosis and management of common cardiac clinical conditions including heart failure, acute coronary syndrome, etc.
- Physiology and pathophysiology of cardiovascular signs and symptoms.

Skills:
- Cardiovascular history and physical examinations.
- Basic EKG interpretation skills.
- Writing organized patient follow-up notes.
- Interpersonal and communication skills with patients, families and other members of the health team.

Attitudes:
- Punctuality
- Reliability
- Conscientious information gathering
- Professionalism in dealing with other members of health team

Activities:
- Daily rounds with consult service attending and fellow
- Initial clinical contact medical personnel for patients referred for consultation
- Attendance at didactic lectures
- Literature review of common and uncommon cardiac conditions encountered on consultation service

Are there didactic lectures: **YES**
Does elective involve inpatient experience? **YES**;
Does elective involve outpatient experience? **NO**

Clinic Hours: 3 hours/week
Seminar Hrs: 20
Small Group: 1 hour/week

Assessment:
Case write-ups; Literature review; Participation in clinical and didactic activities. Both cardiology fellow and attending will assess.

Unique characteristics of the Elective:
The MCG Cardiology elective is an integrated rotation between the cardiology consult service and the special procedure labs. Student’s time will be divided between the consult service and the labs. On the consult service the student will be exposed to various cardiovascular diseases in medical and pre and post-operative surgical in-patients. The student will be part of the consultative team working closely with the cardiology attending and the fellow. Patients will be seen with bedside teaching emphasizing physical and differential diagnosis. The student will be expected to provide references appropriate for each case evaluated. During this time, the student will become familiar with the indications, usefulness and limitations of diagnostic tests and special procedures such as echocardiography, cardiac catheterization, stress testing, electrophysiology studies and nuclear cardiology. Each week the student will spend one day in one of the special procedures laboratories (cardiac catheterization lab, ECHO lab, electrophysiology labs and Nuclear/stress testing lab.) The appropriate attending and fellow prior to and during the lab day will provide didactic teaching. Students will have an opportunity to see left and right heart catheterizations, coronary interventions, transthoracic and transesophageal echocardiography, catheter ablations, pacemaker and/or AICD implantations, cardioversions and stress testing. The EKG laboratory will provide EKGs each day to be read with the EKG attending. Invasive and non-invasive conferences are scheduled throughout the week and journal club is once a month. Students are required to attend conferences. (Drs. Landolfo, Reed, Robinson, Sharma, Sorrentino, and Thornton)

GMED 5018 Cardiology Consultation Service
Location: VA Medical Center – Downtown
Augusta, GA
Enrollment: Maximum: 1
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

Goals:
- To become familiarized with common non-invasive and invasive modalities used in CV evaluation.
- To learn strength, limitation and indications for using one modalities over another in a specific clinical situation.
- Have first go at evaluating and discussing all inpatient consults with Cardiology fellow and have opportunity to present at least one consult a day to the attending cardiologist.
- Attend all Cardiology conferences and grand rounds during the month of rotation.

Objectives:
Knowledge:
- Student would be exposed to the common CV consults like Pre Op Cardiac work up.
- Will learn how to interpret common cardiac rhythm abnormalities on ECG.
- Will see how a stress test, nuclear test and echocardiogram are performed.
- Will have opportunity to observe several live invasive coronary cardiac procedures, their indications and would learn about indications and associated risks to patient.

Skills:
- Focused History taking
- Cardio Vascular examination
- Identification of common cardiac rhythm abnormalities.
- Ability to search literature on a Cardiac question.

Attitudes:
- Inpatient Consults
- Interest in Cardio Vascular disease
- Curiosity about Cardio Vascular literature

Activities:
- Defined rotation to gain some familiarity with ECG, Stress test, Nuclear Tests, Echocardiography, and Cardiac Catheterization laboratory.
- Rounds in interesting inpatient
- Participation in Cardiology Conferences

Are there didactic lectures: YES; 3 hours per week
Does elective involve inpatient experience? YES; 20 hours per week
Does elective involve outpatient experience? NO

Assessment:
The student’s performance in patient evaluation and cognitive skills will be assessed by faculty.

Unique characteristics of the elective:
Comprehensive Bird’s eye view of how a Cardio Vascular division function and how Cardiology consults are evaluated.

BULLETIN DESCRIPTION
The emphasis of this rotation is on consultative cardiology and electrocardiographic interpretation. The student will work closely with the cardiology attending and the cardiology fellow. The major clinical emphasis is on physical diagnosis and differential diagnosis of various cardio-vascular diseases. The student will read a considerable number of electrocardiograms. Students will be familiarized with the indications, usefulness and limitations of special procedures such as echocardiography, stress testing, nuclear cardiology and cardiac catheterization. The student will attend all weekly conferences of the Department of Critical Care. (Dr. Mandawat)

GMED 5040 Cardiology
Location: Cardiovascular Associates of Augusta
1348 Walton Way, Suite 5100
Augusta, GA
Enrollment: Maximum: 1
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

Goals:
- Obtain a clear and concise cardiac history and physical, inpatient and outpatient.
- Use of ancillary modalities such as
  - Arrhythmia interpretation
  - ECG interpretation
  - Indication and use of echocardiography and Doppler
  - Indication for cardiac catheter and intervention

Objectives:
Knowledge:
- Recognize PAC’s, PVC’s, PAF, PSVT, 1°, 2°, 3°, AVB, WPW, VT, a flutter.
- Recognition and therapy of acute coronary syndromes
- Basic cardiac anatomy
- Basic cardiac physiology

Skills:
- Basic understanding echocardiography and Doppler
- Increase cardiac auscultation skills especially heart murmurs
- Drug treatment for hypertension. Drug therapy for chronic angina
- Management of congestive heart failure and acute MI

Attitudes:
- Timeliness
- Professionalism
- Compassion
- Enthusiasm

Activities:
- Daily rounds, outpatient consultation and inpatient consultation
- Evaluation of outpatients
- Observation of cardiac catheters and intervention
- Observation Stress Cardiolyte and StressEchers

Are there didactic lectures: NO
Does elective involve inpatient experience? YES
Does elective involve outpatient experience? YES

Assessment:
By direct observation.

Unique characteristics of the elective:
The ability to observe a wide variety of cardiac diagnosis and treatment and also to observe multiple diagnostic and therapeutic modalities i.e. open heart surgery, cardiac catheter and intervention, nuclear cardiology, echocardiography, inpatient and outpatient cardiac evaluations and therapy.

BULLETIN DESCRIPTION
Student will have exposure to clinical cardiology both in hospital setting as well as the office. Student will be involved in the evaluation of new patients, as well as management of routine follow-up of patients, in terms of physical examinations and discussion of acceptable methods of therapy. In addition, the student will become familiar with Treadmill Exercise Testing, both in the office as well as hospital setting. This group of physicians has a two dimensional sector scanner in the office that is used on a daily basis, so that the student will also become exposed to both M mode echocardiography as well as two dimensional sector scanning, Doppler Echo technique and transesophageal echo. This will provide additional means of evaluation of patients with abnormalities. Their physicians are trained in nuclear cardiology for thallium studies. A nuclear camera is operational in their office for tomographic thallium treadmill studies. An average of anywhere from 25 to 30 cardiac catheterizations at University Hospital per week are performed and the student would have some exposure to these patients. The student would not be
expected to assist during this procedure, but rather to become familiar with the techniques and indications of the procedure. He will also watch angioplasty directional atherectomy and permanent pacemaker insertions along with electrophysiologic procedures. This elective will provide the opportunity for a senior medical student to evaluate a patient in the office and follow his activity both as an outpatient as well as through a hospital admission to include certain diagnostic tests and after through bypass surgery. Hopefully, this will allow the student to formulate his own method of appropriate evaluation and therapy in patients with cardiovascular illnesses. A student who is interested in further training in cardiology or internal medicine after graduation is preferred by this group of physicians.

GMED 5050 Inpatient Cardiology at Atlanta Medical Center
Location: Atlanta Medical Center
Atlanta, GA
Enrollment: Maximum: 1
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June
Student call: 5 – 6 days

Goals:
- To provide experience in evaluation and management of patients with cardiovascular disorders in the ICU and cardiac telemetry ward
- To understand the pathophysiology of cardiovascular diseases
- To implement the knowledge of cardiovascular medicine in primary care
- To recognize cardiovascular emergency care

Objectives:
Knowledge:
- Cardiovascular examination
- Interpretation of EKG
- Basic knowledge about echocardiogram, Myocardial perfusion studies and coronary angiography
- Preoperative cardiac evaluation

Skills:
- Cardiac evaluation and documentation
- Basic interpretation of laboratory data (cardiac), imaging studies and EKG
- Basic cardiovascular resuscitation techniques
- Homodynamic monitoring

Attitudes:
- Learn how to assess cardiac patients
- Learn how to work with the cardiovascular team (including cardiac diagnostic teams)
- Learn how to communicate with families
- Learn how to react in cardiac emergencies

Activities:
Are there didactic lectures: YES; 8 hours
Does elective involve inpatient experience? YES; 40 – 48 hours per week
Does elective involve outpatient experience? NO
- EKG
- Exercise stress testing
- Nuclear stress testing
- Stress ECHO
- ECHO
- Holter and event records
- Cardiac CT/MRI

**Attitudes:**
- Patient care
- Cooperation with office staff and MD’s
- Prevention and patient education
- ACC/AHA guidelines in private practice

**Activities:**
- Four and one-half days in office based practice.
- One half day of hospital procedures – TEE, cardioversion, tilt tables, cardiac CT/MRI

Are there didactic lectures: **NO**  
Does elective involve inpatient experience? **YES; 4 hours per week**

Does elective involve outpatient experience? **YES; 36 hours per week**

**Assessment:**
Daily new patient evaluations and presentations. Outside reading and verbal reports. Fund of knowledge, EKG skills, interpretation of tests.

**Unique characteristics of the elective:**  
This elective will allow the senior student to participate in an outpatient setting in a busy cardiology practice. The student will be involved in the evaluation of new patients and consultations, in terms of physical examinations and discussion of acceptable methods of diagnosis and treatment. Cardiovascular risk assessment, diagnosis and treatment are emphasized. Hyperlipidemia management and genomics are a special focus. The student will be involved with exercise stress treadmill testing, Echoes, EKGs, holter monitoring and event recordings, which are reviewed daily; as well as weekly Nuclear Stress Thallium testing. The student will also have the pleasure of being exposed to MDCT for the early diagnosis of CAD and CTA.

**Dermatology**

**DERM 5001 Dermatology**

**Location:** GRU Hospital and Clinics  
VAMC Dermatology Clinic

**Enrollment:** Maximum: 4  
**Prerequisites:** None  
**Duration:** One Month  
**Months Offered:** July through June

**Goals/Objectives/Activities:**  
Students will see patients at the MCG Hospital and Clinics as well as in the VAMC Dermatology Clinic. Students will participate in Dermatopathology teaching conferences, Morphology Conferences, Grand Rounds, Basic Science teaching conferences, and Journal Club. Supervision will be provided by the dermatology faculty and house staff.

Lecture Hrs: 20 per month  
Clinic Hrs: 160 per month

Program Director: Loretta S. Davis, M.D.

**DERM 5002 Off Campus Dermatology**

**Location:** Off-Campus  
**Prerequisite:** DERM 5001

Off campus electives may be arranged, with prior approval of the faculty. (Dr. Loretta S. Davis)

**DERM 5003 Advanced Dermatology**

**Location:** GRU Hospital and Clinics  
VAMC Dermatology Clinic

**Enrollment:** Maximum: 1  
**Prerequisites:** DERM 5001  
**Duration:** One Month  
**Months Offered:** By special arrangement

**Goals/Objectives/Activities:**
This elective is for students who plan to enter into dermatology residency training.

The goals/objectives/and activities for this elective are the same as DERM 5001. However, students will be given more opportunity to participate in dermatology research and scholarly activities.

Lecture Hrs: 20 per month  
Clinic Hrs: 160 per month

Program Director: Loretta S. Davis, M.D.

**DERM 5005 Regional Campuses - Dermatology**

**Location:** Regional Campus or Off-Campus – NE/NW/SE/SW Campus (must be a regional campus student)  
Albany (SW) - Dr. Melinda Greenfield,  
Rome (NW) – Drs. Prewitt and Girard  
NE/SE – Check with your campus coordinator

**Enrollment:** Maximum: 1  
**Prerequisites:** Must be a residential student assigned to the NE/NW/SE/SW Regional Campus  
**Duration:** One Month  
**Months Offered:** By arrangement through the NE/NW/SE/SW Campuses and departmental approval

**Goals:**  
Develop basic skills in diagnosis and treatment of common dermatologic diseases.

**Objectives:**  
At the end of this rotation, students will be able to:

- Take an appropriate focused history for skin problems
- Define the primary and secondary skin lesions
- Describe rashes using dermatologic terminology
- Diagnose common rashes, such as tinea corporis, acne, seborrhea
- Describe diagnostic characteristics of melanoma, basal cell and squamous cell carcinoma
- Teach patients about skin cancer prevention techniques
- Develop a treatment plan for mild and moderate acne

Activities:
Students will see patients in the office during office hours and hospital consultations.

Resources:
Interactive Dermatology Atlas: http://www.dermatlas.net/  
(Excellent learning tool for students.)
DermaTlas: http://dermatlas.med.jhmi.edu/derm/
Dermnet: http://dermnet.com/

Clinic Hrs: Approximately 160 per month

Gastroenterology

GMED 5021 Gastroenterology
Location: GRU Hospital and Clinics
Augusta, GA/Southeast Campus
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

Goals:
- Develop history-taking skills.
- Foster continual self-learning and improvement
- Learn fundamentals of management of patients with GI or liver disorders.
- Develop oral presentation and organizational skills.

Objectives:
Knowledge:
- Learn indications, utility, risk and benefit of endoscopic procedures.
- Understand common gastrointestinal and hepatic diseases and their treatment.

Skills:
- History taking and physical examination
- Organization
- Oral presentation

Attitudes:
- Self-learning and development

Activities:
- Observe in endoscopy procedures
- Perform inpatient consultation
- Attend outpatient clinics
- Participate in rounds and conferences

Are there didactic lectures: YES; 4 hours
Does elective involve inpatient experience? YES; 30 hours per week
Does elective involve outpatient experience? YES; 10 hours per week

Assessment:
Based on oral presentations of patients.

Unique characteristics of the elective:
Student will work at GRU hospital in the endoscopy suite and in the outpatient clinics. This course is designed to provide an understanding of clinical aspects of diseases of the digestive system, pancreas and liver, including endoscopy, interpretation of gastrointestinal x-rays, biopsies and laboratory results. It consists of rounds, conferences and clinics at the GRU Hospital. (Drs. Schade, Chief; Chamberlain, Chaudhary, Spaulding and Sridhar)

Gastroenterology in Statesboro @ SE Campus

Goals:
- Develop history-taking skills and physical exam skills as related to GI disorders.
- Foster continual self-learning and improvement
- Learn fundamentals of management of patients with GI or liver disorders.
- Develop oral presentation and organizational skills.

Objectives:
Knowledge:
- Learn indications, utility, risk and benefit of endoscopic procedures.
- Understand common gastrointestinal and hepatic diseases and their treatment.

Skills:
- History taking and physical examination
- Organization
- Oral presentation

Attitudes:
- Self-learning and development

Activities:
- Observe and assist in endoscopy procedures
- Perform initial inpatient consultations
- Attend office clinics for GI outpatients
- Participate in rounds and conferences

Are there didactic lectures: YES; 4 hours
Does elective involve inpatient experience? YES; 30 hours per week
Does elective involve outpatient experience? YES; 10 hours per week

Assessment:
Assessment will be based on professionalism, interest, medical knowledge and participation in clinical activities.

Unique characteristics of the elective: During this one-month clinical elective, students will participate, one-on-one, with a busy gastroenterologist in a small to medium sized town with a large referral area. He/She will participate in rounds, clinics, office hours, and hospital consultations. He or she will participate in discussions with patients regarding treatments, biopsies, and overall care. It is anticipated that students will see a large
number of patients with most commonly seen gastroenterological disorders.

**GMED 5093 Gastroenterology Elective**
Location: Southern Gastroenterology Specialists, P.C. Locust Grove, GA
Enrollment: Maximum: 3
Prerequisites: GMED 5000 and Departmental Approval
Duration: One Month
Months Offered: July through June

**Goals:**
- Develop a broad learning experience in Gastroenterology and Hepatology in a community setting.
- Develop history taking skills.
- Foster continual self-learning and improvement. Develop fundamentals of management of patients with GI or liver disorders.
- Develop oral presentation and organizational skills.
- Learn challenges in health care delivery in medically underserved areas.

**Objectives:**
Knowledge:
- Learn indications, utility risk and benefit of endoscopic procedures.
- Understand common gastrointestinal and hepatic diseases and their treatment.

Skills:
- History taking and physical examination
- Organization
- Oral presentation

Attitudes:
- Self-learning and development

Activities:
- Observe endoscopy
- Perform inpatient consultation
- Attend outpatient clinics
- Participate in rounds and conferences

Unique characteristics of the elective:
Student will work at SGS outpatient clinics, LGEC and GI endoscopy suites and in the community hospitals. This course is designed to provide a well-rounded understanding of clinical aspects of diseases of the digestive system, pancreas and liver, including endoscopy, interpretation of gastrointestinal x-rays, biopsies and laboratory results. It focuses on outpatient Gastroenterology and Hepatology in a community setting with inpatient and endoscopy exposure with Southern Gastroenterology Specialists. The rotation will provide students with a broad range of exposure in the community setting including a medically underserved population. (Drs. Michael Cheng, Gregory Gibson, Douglas Lowe, Jay Prakash and Sateesh Prakash). Contact Lizandrea Jones at (706)721-2055.

**Medicine**
*(ALL COURSES IN THE MEDICINE DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)*

**GMED 5008* Acting Internship at VA Hospital**
It is highly recommended that this selective is not scheduled during months of residency interviewing.
Location: VA Medical Center – Downtown Augusta, GA
Enrollment: Minimum: 1 Maximum: 3
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

**Goals:**
- To further enhance the clinical skills necessary to begin transitioning to residency.

**Objectives:**
Knowledge:
- Broad depth of knowledge, which encompasses the field of internal medicine.

Skills:
- Basic clinical procedures
- Chest x-ray interpretation
- EKG interpretation

Attitudes:
- Learning to be a patient advocate

Activities:
- Ward rounds
- Noon conference
- Morning report

Are there didactic lectures: NO
Does elective involve inpatient experience? YES; 40 – 60 hours per week
Does elective involve outpatient experience? NO

Seminar Hours: 1 hour per week

Assessment:
Skills including history and physical, case presentations, problem solving, ability and generation of appropriate diagnostic and therapeutic options.

**BULLETIN DESCRIPTION**
Students in this elective function as acting interns on the general medicine services at the Veterans Administration Hospital. The student will alternate patients with the intern in the initial workup treatment and care of these patients. The student will be closely supervised by the resident and faculty physician attending on the service. The acting intern will be responsible for planning and instituting the diagnostic workup and therapeutic program for his patients. In addition, he/she will assist in the teaching of junior medical students assigned to his service. The acting intern's on call schedule will be identical to that of the ward team.

**GMED 5009* Acting Internship at Eisenhower Army Medical Center (Fort Gordon)**
Location: Eisenhower Army Medical Center Augusta, GA
Enrollment: Maximum: 1
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: January through June
Student call: Every fourth night with the on call resident

Objectives:
Knowledge:
- Identifying sick versus well patients.
- Developing patient interviewing and fact-finding skills.
- Learning the pathophysiology of multiorgan diseases.
- Treating and managing internal medicine patients.

Skills:
- Patient interviewing.
- Derivation of a problem list and differential diagnosis.
- Managing and treating diagnosis.
- Introduction to procedures such as paracentesis, thoracentesis, LPs, etc.

Attitudes:
- Introduction to and improvement on the care of the patient.
- Learning to recognize a sick patient.
- Continuing to be motivated in learning the art of internal medicine.

Activities:
The Sub-I will be expected to attend rounds, journal club, morning report and our resident “off site” clinical conferences held bi-monthly. We have no fellows, therefore, our residents have exposure to various procedures that otherwise would have been performed by fellows. Our attending also work directly with the students and residents for one-one learning.

Are there didactic lectures: YES; 5 hours per week
Does elective involve inpatient experience? YES; 60 hours per week
Does elective involve outpatient experience? NO

BULLETIN DESCRIPTION
The student will participate in rounds, conferences, clinics and ward work. The staff of the hospital will serve as faculty for this course. Students will be assigned to one of the Internal Medicine ward services. A maximum of 3 students can be assigned to Internal Medicine. The on call schedule for the student will be identical to that of the ward team. Students will gain perspective of ambulatory medicine by participating in internal medicine clinic. (Browne)

GMED 5010 Rheumatology at GRU
(4th Year Students Only)
Location: GRU Hospital and Clinics
Augusta, GA
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: None
Duration: One or Two Months
Months Offered: July through June

Goals:
This elective will provide students with opportunities to learn clinical rheumatology. Supervised by attending physicians, students will participate in primarily outpatient consultations, participate in teaching conferences, gain experience in pertinent diagnostic procedures, evaluate and follow patients in the faculty practices, and learn pathophysiology, differential diagnosis, clinical manifestations, management, and therapy of rheumatology.

Objectives:
Knowledge:
- This rotation provides each medical student with the opportunity to acquire the basic medical knowledge, history-taking skills and clinical skills to diagnose and treat patients with rheumatic diseases.
- The rotation provides exposure to patients with common and also unusual Rheumatologic problems encountered in the outpatient setting.

Skills:
- Perform a Rheumatologic evaluation, including history, a physical exam and a complete musculoskeletal examination.
- Formulate a differential diagnosis and request appropriate laboratory studies.
- Interpret the laboratory studies.
- Advise a course of treatment, including medications and/or physical therapy depending on the nature of the problem.
- Become familiar with Rheumatologic modalities, including indications, and potential side effects of joint aspirations and injections, anti-inflammatory agents, corticosteroids and disease modifying agents.
- Perform an arthrocentesis during the rotation.

Attitudes:
- Social responsibility
- Compassion
- Professionalism
- Commitment to excellence

Activities:
- Rheumatology Outpatient clinics both at the Medical College of Georgia and Veteran’s Administration Medical Center
- 8:30 a.m. - 5:00 p.m. Students will be at the clinic on weekdays.
- No Call Responsibilities – and there are no inpatient hospital responsibilities

Are there didactic lectures: YES; 1 – 2 hours per week
Does elective involve inpatient experience? NO
Does elective involve outpatient experience? YES; 40 hours per week

Other: Radiology teaching sessions

Assessment:
The Section Chief of Rheumatology will complete the MCG Student Program Evaluation form and will assign a grade for the rotation. The evaluation will be discussed with the student

Unique characteristics of the elective:
The Section of Rheumatology takes great pride in its teaching mission. Teaching of all trainees is a principal priority by all faculty members and fellows. The collegial atmosphere fostered by this teaching commitment and patient care emphasis makes student learning a natural
outgrowth of this highly professional and enriching environment on the Rheumatology Service.

BULLETIN DESCRIPTION
A clinical multidisciplinary experience in the rheumatic diseases with a basic core of material pertinent to major diseases in this area; experience with consulting and clinical material. Special desires for more defined endeavor by the student will be considered. (Drs. Goeckeritz and Moore)

GMED 5011* Acting Internship at GRU Hospital/SE Campus
It is highly recommended that this selective is not scheduled during months of residency interviewing.
Location: GRU Hospital and Clinics
Augusta, GA/SE Campus
Enrollment: Maximum: 3 (beginning July 2014 the maximum will be 4)
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June
Goals:
To further enhance the clinical skills necessary to begin transitioning to residency.

Objectives:
Knowledge:
 Broad depth of knowledge, which encompasses the field of internal medicine.
Skills:
 Basic clinical procedures
 Chest x-ray interpretation
 EKG interpretation
Attitudes:
 Learning to be a patient advocate
Activities:
 Ward rounds
 Noon conference
 Morning report

Are there didactic lectures: NO
Does elective involve inpatient experience? YES; 40 – 60 hours per week
Does elective involve outpatient experience? NO
Seminar Hours: 1 hour per week

Assessment:
Skills including history and physical, case presentations, problem solving, ability and generation of appropriate diagnostic and therapeutic options.

BULLETIN DESCRIPTION
Students taking the acting internship at MCG will essentially function as an intern on the team, admitting patients in sequence with the interns and working directly under the resident. Acting interns will be expected to attend all conferences the interns attend. The acting intern will complete the initial work up and determine the treatment plan in conjunction with the resident. The acting intern will function as the primary care physician for his/her patients but will be closely supervised in all activities by the resident and attending faculty physician. The acting interns on call schedule will be identical to that of the ward team.

GMED 5012 Hematology/Oncology at GRU/VA
Location: GRU Hospital and Clinics and/or VA Medical Center
Augusta, GA
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Medicine Core
Duration: One or Two Months
Months Offered: July through June
Goals:
The goals of this rotation is designed to build the students’ basic knowledge, improve their skills in obtaining a complete and concise history and performing a thorough physical exam, analyze the information gathered from the patient, and to help them expand their ability to consider an appropriate differential diagnosis and manage the disease process(es) itself.

Objectives:
Knowledge:
 Provide the basics in hematology and medical oncology.
 Importance of peripheral smear review in basic diagnosis.
 Approach to diagnosis and management as well as general principles of cancer chemotherapy.
 Importance of interdisciplinary cancer decision-making (internist, surgeon, radiation therapist) will be emphasized.
 End of life care for cancer patients.
Skills:
 Bone marrow
 Lumbar puncture
 Intra-thecal chemotherapy administration
Attitudes:
 Learning professionalism
 Patient-physician relationship
 Communication skills to patient about disease process

Activities:
Two half-day clinics each week are arranged to emphasize the diagnosis and therapy of common hematologic and oncologic disorders.

Are there didactic lectures? YES; 4 hours per week
Does elective involve inpatient experience? YES; 30 hours per week
Does elective involve outpatient experience? YES; 8 hours per week (It may be incorporated if they choose)

Assessment:
Students will be assessed on a comprehensive basis encompassing their knowledge, skills and attitude and interest toward learning.

Unique characteristics of the elective:
Unique exposure to multidisciplinary approach to treatment of hematologic and oncologic malignancies. There is also exposure to stem cell transplantation for many diseases.
This elective is designed to provide the basics in clinical hematology and medical oncology. In depth study of blood and marrow morphology is emphasized. An approach to diagnosis and management as well as general principles of cancer chemotherapy will be stressed. The importance of interdisciplinary cancer decision-making (internist, surgeon, radiation therapist) will be emphasized. Two half-day clinics each week are arranged to emphasize the diagnosis and therapy of common hematologic and oncologic disorders. (Drs. Coleman, Dainer, Jillella, Kutlar, May, Natarajan, Nayak, Samuel and Ustun).

GMED 5013 Renal Transplant/Yellow Medicine Elective at GRU
Location: GRU Hospital and Clinics
Augusta, Georgia
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Medicine Core, Surgery Core
Duration: One Month
Months Offered: July through June

Goals:
Offer overview of inpatient and outpatient physical medicine and rehabilitation.

Objectives:
Knowledge:
- Understand the most common causes of chronic kidney disease. Understand the importance of slowing the progression of chronic kidney disease to prevent end-stage kidney failure.
- Understand the current renal replacement modalities: dialysis and transplantation.
- Achieve competence on acid-base and electrolyte disorders, with understanding evaluation and treatment of proteinuria and hematuria.
- Become familiar with complications of patients with chronic kidney disease and renal transplant recipients.

Skills:
- History: Physical examination skills are required.
- Typically learners will participate on medical and surgical rounds and participate in patient care.
- Skills mastered will be competence in fluid acid-based and electrolyte disorders, treating hypertension, management of diabetic nephropathy and adjusting immunosuppressive medicines in renal transplant recipients, along with evaluation and treatment of acute renal failure.
- This is an excellent rotation for a sub-intern to gain management skills and hone their clinical decision making skills.

Activities:
- Outpatient clinical experience, patients with chronic kidney disease as well as renal transplant recipients.
- Observe a renal transplant in the operating room.
- Observe and potentially participate in procedures such as: insertion of percutaneous dialysis catheters, renal biopsies and central venous lines.

BULLETIN DESCRIPTION:
Principal objective of this elective is to learn transplant immunosuppressive therapies and a practical approach to renal transplant patients. Emphasis will be placed on evaluation of patients in the outpatient transplant clinic as well as hospitalized transplant patients. Opportunity will be available to observe renal transplantation in the operating room. In addition, inpatient experience in managing patients with renal disease including hemodialysis, peritoneal dialysis, transplant rejection, nephritic syndrome and uremic complications. Procedural opportunities may include dialysis catheter insertion. The service will be assisted by a renal fellow and medicine residents. (Drs. L. Mulloy and M. Jagadeesan)

GMED 5014 Rehabilitation Medicine
Location: Walton Rehabilitation Hospital
Augusta, Georgia/Locations on the SE and SW Campuses
Enrollment: Maximum: 1
Prerequisites: Medicine Core
*SW students – Dr. Clyde Simmon’s approval
Duration: One Month
Months Offered: July through June

Goals:
Offer overview of inpatient and outpatient physical medicine and rehabilitation.

Objectives:
Knowledge:
- Understand role of physiatrist in management of patients.
- Gain experience in general principles of physical medicine and rehabilitation.
- Learn importance of multi-disciplinary approach towards disabilities.
- Recognize patients appropriate for rehabilitation services.

Skills:
- Musculoskeletal examination of common painful problems.
- Neurological assessment of spinal cord injury, stroke and brain injury.
- Interview patients with newly acquired disabilities.
- Interact with multi-disciplinary team members.

Attitudes:
- Inclusion of disabled citizens into society.
- Promotion of health for the disabled.
- Empathy for patients with newly acquired disabilities.
- Advocacy for the disabled.

Activities:
Augusta - Daily activities at Walton Rehabilitation Hospital and office time with Dr. Pamela Salazar in private practice setting.

Are there didactic lectures: **NO**
Does elective involve inpatient experience? **YES**
Does elective involve outpatient experience? **YES**

**BULLETIN DESCRIPTION:**
Objectives of the elective will be to learn general principles of rehabilitation medicine in the hospital setting, in addition to participation in a multidisciplinary approach to treatment of patients undergoing rehabilitation. The student will have some clinical responsibility for patients admitted to the hospital and follow them through their rehabilitation. Specialty programs for Brain Injury, Pediatric Rehab. Spinal Cord Injury, Stroke Rehab. (Walton Rehabilitation Hospital -Dr. Pamela Salazar/SW – needs approval by Dr. Clyde Simmons)

**GMED 5023 Pulmonary Diseases Consult**
Location: GRU Hospital and Clinics
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

**Goals:**
- Function as consultant for inpatient and outpatient pulmonary problems.
- Follow pulmonary patients in long term acute care hospital (Select Specialty).

**Objectives:**
**Knowledge:**
- Understand major categories of pulmonary disease.
- Understand chest x-rays and PFT’s.
- Understand how consultant functions in inpatient and outpatient setting.

**Skills:**
- History taking
- Physical examination skills
- Chest x-ray interpretation, CT scans, pulmonary function tests
- Ability to search literature

**Attitudes:**
- Willingness to work hard
- Curiosity about literature of pulmonary disease
- Interest in reading of chest x-rays and CT’s

**Activities:**
- Round on long-term patients in Select Hospital
- Inpatient consults
- Outpatient consults
- Conferences

Are there didactic lectures: **YES; 2 hours per week**
Does elective involve inpatient experience? **YES; 20 hours per week**
Does elective involve outpatient experience? **YES; 5 hours per week**

**Assessment:**
The student's performance in patient evaluation and cognitive skills will be assessed by faculty.

**Unique characteristics of the elective:**
This elective is designed to provide experience in consultative pulmonary medicine. Emphasis is placed upon the clinical evaluation of patients with altered lung function, and the appropriate use of both invasive and noninvasive pulmonary diagnostic procedures. The student will gain experience in interpretation of chest roentgenograms, pulmonary function tests, and arterial blood gases. Selected pulmonary topics are covered in the weekly pulmonary conference. (Drs. Davis (Section Chief), Blanchard, Dillard, Forseen, and Gossage)

**GMED 5025 Infectious Diseases**
**GMED 5032**
Location: GMED5025–GRU Hospital and Clinics
Location: GMED5032–VA Medical Center
Enrollment: MCG Maximum: 3
Enrollment: VAMC Maximum: 2
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

**Goals:**
Increased understanding of the pathogenesis and pathophysiology of infection to promote optimal prevention and treatment.

**Objectives:**
**Knowledge:**
- Increased understanding of microbial virulence.
- Sites of action of antimicrobial agents.
- Antimicrobial spectrums of activity.
- Common adverse outcomes of antimicrobials.

**Skills:**
- Early recognition of increased host susceptibility
- Prompt recognition of signs and symptoms of less common infections
- Proportionate monitoring of patient outcomes, both improvement and worsening.
- Detailed understanding of the motorial history of infections.

**Attitudes:**
- Increased appreciation for the clinical history and exam
- Increased wisdom (defined as the ability to make the right decision with an inadequate data base).
- An improved appreciation for the hazards of empiric antibiotic therapy.
- Humility

**Activities:**
- ID consultation rounds usually 6 days per week.
- ID case conferences, weekly

Are there didactic lectures: **YES; 1 – 3 per week**
Does elective involve inpatient experience? **YES; 15 – 20 hours per week**
Does elective involve outpatient experience? **YES; 10 – 15 hours per week (Multiple clinical (clinic) venues)**

Small Group: 3 – 6
Assessment:
On consultation quality, literature review, case presentations, follow-up of patient problems and peer interaction and/or teaching.

BULLETIN DESCRIPTION
This clinical consultation service provides experience in the diagnosis and management of patients with infections, interpretation of stained specimen cultures and sensitivity data, serology and the appropriate use of antimicrobial and antiviral agents. The elective consists of rounds, clinics and conferences at the GRU Hospital and Clinics, VA Medical Center, and Dwight D. Eisenhower Army Medical Center. Internal Medicine Residents are usually available at VA, GRU and Ft. Gordon hospitals; infectious disease fellows may additionally attend at the VA and GRU hospitals. Daily didactic instruction is provided. On call availability is needed. Students may elect which hospital with preferences honored insofar as possible. GRU and VA physicians routinely make consultation rounds at both the VA Medical Center and GRU Hospital and Clinics concurrently (in the same month). Thus, patients are assigned in rotation, not on the basis of hospital preference during these months. A joint ID problem conference rotates weekly between the four hospitals and is held Friday at 10:00 AM. GRU and VA students routinely attend two clinics weekly: Monday p.m., Tuesday a.m. or Wednesday p.m. (GRU) and Thursday a.m. (VA or GRU). HIV disease is common, particularly in these clinics. The ID office (721-2236) can give the students the attendings name for any month after assignments are made.

GRU/VA: Drs. J. Peter Rissing, Section Chief; Mary Forsyth, Malliga Ganapathy, David Haburchak, and Cheryl Newman.

GMED 5026 Critical Care Medicine (VA ICU)
It is highly recommended that this selective is not scheduled during months of residency interviewing.

Location: VA Medical Center – Downtown Augusta, GA
Enrollment: Maximum: 2
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
An acute inpatient medical care elective where the student can expect patient care teaching in all aspects of Critical Care. Especially valuable to those interested in Surgery, Anesthesia, or Medicine. Work with a critical Care Team: Intern, Fellow, and Staff. (Drs. Brice, Ewald and Smith)

Objectives:
Knowledge:
- Understand the pathophysiology of critical illness.
- Utilize the correct tests to diagnose critically ill patients in a timely fashion.
- Prescribe the appropriate therapy for critically ill patients.
- Analyze the progress or decline of patients with invasive monitoring.
- Placement of percutaneous central venous catheters
- Placement of arterial lines
- Endotracheal intubation techniques
- Invasive monitoring
- Ventilator management
- Chest x-ray interpretation

Attitudes:
- Dealing with the families of critically ill patients
- Assisting patients and families with death and dying
- Handling the personal stress of working with the critical care environment.

Activities:
- Daily rounds with the attending
- Procedures as dictated by performance level
- Management of critically ill patients.

Are there didactic lectures: YES; 2 hours per week
Does elective involve inpatient experience? YES; 60 hours per week
Does elective involve outpatient experience? NO

Assessment:
The student will be assessed on fund of knowledge gained during the month, his or her ability to independently manage critically ill patients, efficiency of diagnostic workup and treatment plans. Assessment will also take into account professionalism when working with the patient and their family and the ability of the student to effectively become part of the critical care team which includes physicians, nurses, nutritionists, therapists and consultants.

Unique characteristics of the elective:
The current staffing of the VA MICU calls for one attending, one fellow, two interns, and up to three students. The service runs between five and ten patients. Students can become much more independently involved in the care of critically ill patients on this rotation than on other critical care rotations.

GMED 5027 Off Campus Elective
Location: Off Campus
Enrollment: Indefinite
Prerequisites: Medicine Core
Duration: One to Two Months
Months Offered: July through June

Special arrangements can be made for elective periods of one month in the Department of Medicine at other medical schools and teaching institutions. These electives can be spent in General Internal Medicine or medical subspecialties. The following must accompany the SEA Form: written statement accepting student to do elective including description of the content of the elective and name of preceptor responsible for evaluation. Elective must be approved by Dr. Pamela Fall, BI-5072, EXT. 2055.
GMED 5028 Research Elective in Medicine
Location: GRU Hospital and Clinics and/or VA Medical Center
Augusta, GA
Enrollment: Minimum: 1 Maximum: 16
Prerequisites: Approval by faculty member with whom research will be done
Duration: One Month or longer by arrangement
Months Offered: July through June
Opportunity to participate in research programs being conducted by members of the faculty of the Department of Medicine. Arrangements to be made by the student with a member of the faculty. A description of proposed project must be submitted to and approved by Dr. Pamela Fall, BI-5072, EXT: 2055. A copy of the description must accompany the SEA Form. If the duration of the elective is more than one month, students only receive credit for a one month elective. (The research elective in Metabolic and Endocrine Disease requires GMED 5039 as a prerequisite.)

GMED 5030* Advanced Internship
Atlanta Medical Center
It is highly recommended that this elective is not scheduled during months of residency interviewing.

Location: Atlanta Medical Center
Atlanta, GA
Enrollment: Minimum: 1 Maximum: 3
Prerequisites: Phase 3 Core Curriculum
Duration: One to Two Months
Months Offered: July through June
Student call: Every 4 – 5 days

Goals:
- Learn how to work with physicians, residents and nursing staff
- Learn how to communicate with families
- Learn how to be a team player

Activities:
- Are there didactic lectures: YES; minimum of 8 hours
- Does elective involve inpatient experience? YES; 48 hours per week
- Does elective involve outpatient experience? NO

Lab Hours: SOME
Seminar Hours: 4 – 6 hours
Small Group: YES

Assessment:
Students will be evaluated daily on rounds and weekly during discussion of assigned reading. They will receive a weekly feedback and a mid-week formal evaluation by the supervising attending physician. A written evaluation with numerical grades will be completed at the end of the rotation.

Unique characteristics of the elective:
The Internal Medicine rotation will provide many opportunities to learn from wide range of case mix (from the most common ones to the rare ones). Students will supplement their knowledge with daily medical conferences, grand rounds, morning report case presentations, journal clubs and mortality and morbidity rounds.

BULLETIN DESCRIPTION
The Department of Medicine at Atlanta Medical Center in Atlanta, Georgia offers a clerkship in General Internal Medicine and all subspecialties. Clerkships will involve evaluation and management of both in- and outpatients. The program, to include conferences, rounds and seminars, is under the direction of full time department physicians in Internal Medicine. On Call Schedule is individualized, depending on rotation but will be no more frequently than every fourth night. Internal Medicine Program Director: Miriam Parker, M.D. Call Room available when students are on call.

GMED 5031 Infectious Diseases at University Hospital
All MCG students rotating at or through University Hospital for this elective must complete and submit a (1) signed confidentiality statement and (2) background check that has been conducted within the past two years documenting no criminal history to Lizandrea Jones at least 30 DAYS PRIOR to the start of your rotation. You will not be able to start your rotation until this documentation has been submitted to and approved by Lizandrea Jones; (706) 721-2055.

Location: University Hospital
Augusta, GA
Enrollment: Maximum: 2
Prerequisites: Medicine Core
Duration: One Month
Months Offered: July through June

Goals:
Gain experience and become comfortable in the management of a wide spectrum of infectious diseases, to become more experienced at choosing the proper antibiotics in treating various infections.

**Objectives:**

**Knowledge:**
- In depth understanding of a wide variety of infectious diseases.
- An understanding of the appropriate usage of antibiotics.
- How to interact with families and patients at all levels.

**Skills:**
- Diagnosis of infectious diseases
- Antibiotic management of infectious diseases
- How to utilize a computerized medical record in the inpatient and outpatient management of patients with infectious diseases

**Activities:**
- Daily hospital round with an infectious disease attending
- Outpatient HIV clinic experience
- Participation in didactic activities
- Attendance at the citywide infectious diseases conference

Are there didactic lectures: YES; 4 hours per week
Does elective involve inpatient experience? YES; 30 hours per week
Does elective involve outpatient experience? YES; 6 hours per week

**Assessment:**
By direct observation of the student’s ability to participate in the management and diagnosis of patient’s with various infectious diseases.

**Unique characteristics of the elective:**
This is a month of exposure to serious infections; the student will work side by side with the infectious disease attending during the management of each case. Also, the student will be intimately with families and patients.

**BULLETIN DESCRIPTION**

University Hospital: Dr. Jack Austin
The student(s) will spend four weeks working one on one with a Clinical Infectious Disease attending at the University Hospital. Duties include in-house consults as well as participating in the care of office patients. Additionally, the student attends the Wednesday University ID clinic and sees consults for the staff service. Didactic instruction is provided daily. The student attends the Friday ID conference and other conferences as appropriate.

**GMED 5034 Pulmonary/Medical Critical Care**
It is highly recommended that this selective is not scheduled during months of residency interviewing.

**Prerequisites:** Phase 3 Core Curriculum
**Duration:** One Month
**Months Offered:** July through June

**Pulmonary Critical Care @ GRU**

**Goals:**
- Learn how to systematically approach a critically ill patient when first admitted to ICU
- Learn how to manage a variety of ICU problems
- Learn various ICU procedures and their indications

**Objectives:**

**Knowledge:**
- Differential diagnosis and treatment of respiratory failure
- Management of septic shock
- Diagnosis and management of GI bleeding
- Management of drug overdoses

**Skills:**
- Arterial line placement
- Central venous line placement
- Chest x-ray interpretation
- Ventilator management

**Activities:**
- Are there didactic lectures: YES; 12 hours
- Does elective involve inpatient experience? YES; 60 hours per week
- Does elective involve outpatient experience? NO
- Student Call: Once weekly

**Assessment:** Standard clinical rotation form

**BULLETIN DESCRIPTION**
This elective is designed to provide an intensive experience in critical care medicine. Emphasis is placed upon clinical evaluation and management of critically ill patients: mechanical ventilatory support, hemodynamic and ventilatory monitoring and other critical care interventions. Didactic sessions, conferences and teaching rounds provide a broad view of clinical approaches to critically ill patients. (Drs. Blanchard, Davis, Dillard, Forseen, and Gossage)

**Pulmonary Critical Care @ Brunswick**

**Goals:**
To further enhance the necessary clinical skills in Internal Medicine to begin transitioning to residency.

**Objectives:**
- Knowledge: Pathophysiology of septic shock, acute respiratory failure, hemorrhage and renal failure: specific treatment modalities including mechanical ventilation; hemodynamic monitoring and interpretation; sedation of critically ill patients.
- Skills: endotracheal intubation (as available): arterial catheterization; central venous connection/Swan Ganz catheters; thoracostomy as available/bronchoscopy as available.
- Attitudes: Communication with families regarding illness/end of life and ethical issues
in the ICU environment; responsibility for critically ill patients; independent reading/study regarding disease processes.

**Activities:** Manage critically ill patients daily; weekend round experience ½ time; participation in rounds/family conferences.

**Unique characteristics:** The student will work with two critical care physicians at Southeast Georgia Health System. These physicians provide seven days per week, 24-hour day coverage for inpatients at the hospital. The student will be assigned to round on, and manage under supervision, critically ill patients, depending on the complexity and student abilities. The practice consists of admission of medical and critically ill patients from the emergency room, inpatient consultation to MICU and SICU, and management of critically ill patients accepted in transfer from outlying hospitals. All types of acute medical problems are seen in this practice environment. The student will have one-on-one teaching with the clinical faculty and are encouraged to participate in and learn diagnostic and therapeutic procedures. Physicians include Dr. Gary Voccio, Dr. Jennifer Barbieri, and Dr. Darshak Pandy of the Harbin Clinic.

**Pulmonary Critical Care @ Savannah**

**Goals:**
To further enhance the necessary clinical skills in Internal Medicine to begin transitioning to residency.

**Objectives:**
- Knowledge: Pathophysiology of septic shock, acute respiratory failure, hemorrhage and renal failure: specific treatment modalities including mechanical ventilation; hemodynamic monitoring and interpretation; sedation of critically ill patients.
- Skills: endotracheal intubation (as available): arterial catherization; central venous connection/Swan Ganz catheters; thoracostomy as available/bronchoscopy as available.
- Attitudes: Communication with families regarding illness/end of life and ethical issues in the ICU environment; responsibility for critically ill patients; independent reading/study regarding disease processes.

**Activities:**
Manage critically ill patients daily; weekend round experience ½ time; participation in rounds/family conferences.

**Savannah Unique characteristics:**
The student will work with two critical care physicians at Southeast Georgia Health System. These physicians provide seven days per week, 24-hour day coverage for inpatients at the hospital. The student will be assigned to round on, and manage under supervision, critically ill patients, depending on the complexity and student abilities. The practice consists of admission of critically ill patients from the emergency room, inpatient consultation to ICU and CCU, and management of critically ill patients accepted in transfer from outlying hospitals. All types of acute medical problems are seen in this practice environment. The student will have one-on-one teaching with the clinical faculty and are encouraged to participate in and learn diagnostic and therapeutic procedures. Physicians include Dr. Gary Voccio, Dr. Jennifer Barbieri, and Dr. Darshak Pandy of the Harbin Clinic.

**Pulmonary Critical Care @ Rome (Beginning January 2015)**

**Goals:**
To further enhance the necessary clinical skills in Internal Medicine to begin transitioning to residency.

**Objectives:**
- Knowledge: Pathophysiology of septic shock, acute respiratory failure, hemorrhage and renal failure: specific treatment modalities including mechanical ventilation; hemodynamic monitoring and interpretation; sedation of critically ill patients.

**Activities:**
Manage critically ill patients daily; weekend round experience ½ time; participation in rounds/family conferences.
Prerequisites:  Medicine Core  
Duration:  1 Month  
Months Offered:  July through June  

BULLETIN DESCRIPTION  
Inpatient consultations and ambulatory clinics at the MCGHI and VAMC are the primary activities of the elective. These activities are carried out in association with one or more medical residents and a clinical endocrine fellow. They are supervised by members of the Section of Endocrinology and Nutrition. The supervised management of cases encountered in these settings will provide the vehicle for teaching. Thyroid, adrenal, parathyroid, pituitary and gonadal diseases as well as diabetes, developmental problems, virilization and electrolyte disorders will be discussed. There will be opportunities for didactic presentations and students will be expected to read relevant clinical literature. A textbook and collection of reprints is provided on loan and a series of core didactic lectures is presented for students on the rotation. Student responsibilities will include participation in Section inpatient consultation and clinic activities, as well as the weekly clinical conference at which case presentations will be made. (Drs. Chin, Huff, Isales, Mulloy, Stachura and White).

GMED 5049 Medical Intensive Care at Eisenhower Army Medical Center (Fort Gordon)  
Location:  Eisenhower Army Medical Center  
Augusta, GA  
Enrollment:  Maximum:  1  
Prerequisites:  Phase 3 Core Curriculum  
Duration:  One Month  
Months Offered:  November through June  
Student call:  Every fourth night  

Goals:  
To develop familiarity with the care of critically ill medical patients in a multi-disciplinary environment using a comprehensive systems-based approach.

Objectives:  
Knowledge:  
- Recognition and differentiation of shock  
- Management of septic shock  
- Approach to the patient with respiratory failure  
- Basic knowledge of mechanical ventilation with emphasis on indications and weaning  
- Interpretation of acid-base abnormalities  
- Fluid and electrolyte management  
- Nutrition management in critically ill patients  
- Use of empiric antibiotics in the ICU  
- Appropriate application of sedation and analgesia  
- Indications for an interpretation of invasive hemodynamic monitors.

Skills:  
- Technique of central venous access  
- Arterial cannulation and continuous blood pressure monitoring  
- Airway management skills to include tracheal intubation  
- Pulmonary artery catheter insertion and interpretation

Activities:  
- Pre-round on all assigned patients (not to exceed 3)  
- Attend Internal Medicine morning report  
- Present patients to attending staff daily  
- Coordinate all consults and ancillary services for your patients  
- Attend Internal Medicine Noon conference  
- Write daily progress note on all assigned patients  
- Attend daily critical care medicine lecture (by attending staff)  

Are there didactic lectures:  YES; 5 hours per week  
Does elective involve inpatient experience:  YES; 60 hours per week  
Does elective involve outpatient experience:  NO  
Assessment:  
Student will be assessed on their ability to present individual patient data, ability to synthesize data, and ability to formulate differential diagnoses. Students will be encouraged to develop daily patient management plans for their patients. Students will also be assessed on their abilities to manage large amounts of patient data and the ability to coordinate patient care.

Unique characteristics of the elective:  
This rotation offers close interaction with staff and physicians on active work rounds as well as in academic rounds and lectures. You will get close supervision and thus develop confidence caring for critically ill patients.

BULLETIN DESCRIPTION  
Primary care acting intern experience in the ICU setting. Acting intern will provide primary care for up to 3 patients under the supervision of a resident and attending physician. Call schedule will be every fourth night; rounds on Saturday and Sunday required. One day off each week. (Drs. Atkins, Browne, Gavin, Honeycutt, Lee and Quinn) * A SEA Form for this elective must be submitted to the Medicine clerkship office for review and approval by Dr. Erik Manninen.

GMED 5056 Epidemiology - Atlanta  
Location:  Centers for Disease Control and Prevention (CDC)  
Atlanta, GA  
Enrollment:  Maximum number is variable  
Prerequisites:  Medicine Core  
Duration:  One to Two Months  
Months Offered:  September through June (applications must be submitted to the Epidemiology Program Office at CDC by May 30 of the student’s third year)  

How To Apply:  
http://www.cdc.gov/eis/applyeis/applyeis.htm  

This elective is designed to introduce the student to applied epidemiology, preventive medicine, and public health as practiced at CDC. Students have the opportunity to actively assist in epidemiologic investigations of infectious diseases and in studies of a wide variety of public health problems such as chronic, environmental, and occupational diseases, injuries, and
reproductive health. Students work under the supervision of CDC epidemiologists and work on specific projects. Students are also exposed to day-to-day operations and a broad range of activities at CDC. Familiarity with computers and data analysis is helpful but not essential. Students are responsible for providing their own living and travel expenses.

**GMED 5060 Telehealth Technology**
Location: GRU, AI-1025  
Enrollment: Maximum: 2  
Prerequisites: None  
Duration: One Month  
Months Offered: September through May  
Goals: Students shall gain a basic understanding of the value of medical informatics and telehealth technologies in the current practice of medicine and the potential for improving health care practice and efficiency as well as reducing medical errors.  

**Objectives:**  
**Knowledge:**  
- The tool of medical informatics  
- Common telehealth technologies  
- Technology-assisted remote consultation possibilities  
- Technology-assisted patient-centered chronic disease management techniques  

**Skills:**  
- PDA  
- Video-conferencing  
- Remote patient assessment  
- Remote specialist support  

**Attitudes:**  
- Patient in possession of disease management information  
- Patient in possession of disease management skills  
- Support for patient decision-making at home, work, and school  
- Physician as "coach" in chronic disease management  

**Activities:**  
- Observe/participate in remote clinics from provider side (*See below*)  
- Observe/participate in remote clinics from rural side (*See below*)  
- Library/Internet-based research on telehealth topic of interest to student  
- Student presents results of research project at regular Center conference  

**Unique characteristics of the elective:** Exposure to telehealth technologies that can be put into use by the student immediately (PDA). Exposure to telehealth technologies that will enable the student to expand personal expectations concerning efficient future practice, including maximizing patient assumption of care responsibilities, patient participation in health care, clinician access to specialty care, and clinician self-improvement/reduction of the potential for medical error.

**GMED 5069 Pulmonary/Critical Care at Atlanta Medical Center**
Location: Atlanta Medical Center Atlanta, GA  
Enrollment: Maximum: 1  
Prerequisites: Phase 3 Core Curriculum  
Duration: One Month  
Months Offered: July through June  
Student call: Every 4 – 5 days  

It is highly recommended that this selective is not scheduled during months of residency interviewing.  

**Goals:**  
- To provide experience in managing critically ill and mechanically ventilated patients.  
- To understand basic pathophysiology of certain disease entities commonly seen in the critical care setting.  
- Learn hemodynamic monitoring and essentials of acute resuscitation.  

**Objectives:**  
**Knowledge:**  
- Assessment treatment and understanding of the pathophysiology of sepsis, shock (various types), ARDS, COPD (respiratory failure)  
- Intubation and mechanical ventilation  
- Invasive procedures  
- Acid-base disorders  
- Other critical care interventions  

**Skills:**  
- Basic Interpretation of chest X-ray  
- Arterial lines  
- Central lines and Swan - Ganz catheters  
- Intubation  
- Lumbar puncture  

**Attitudes:**  
- Learn how to assess patients in the ICU  
- Learn to address end of life issues  
- Learn how to work closely with nursing staff and ancillary services  
- Learn how to communicate with families  

**Activities:**  
- Are there didactic lectures: YES; minimum of 8 hours  
- Does elective involve inpatient experience? YES; 48 hours per week  

**Assessment:**  
- By faculty and staff with whom students interacts. By center evaluation of research project and presentation.
Lab Hours: Minimal  
Seminar Hours: Minimal  
Small Group: YES

Assessment:  
Students will be evaluated daily on rounds and weekly during discussion of assigned reading. They will receive a weekly feedback and a mid-week formal evaluation by the supervising attending physician. A written evaluation with numerical grades will be completed at the end of the rotation.

Unique characteristics of the elective:  
The ICU rotation provides excellent didactic sessions and close supervision. Exposure to a wide variety of diseases along with the hands on experience in managing patients is truly unique to this rotation.

BULLETIN DESCRIPTION  
This elective provides an intensive experience in critical care medicine. Under the supervision of the critical care attending physician, students will evaluate and manage critically ill patients. Students will have the opportunity to gain experience with mechanical ventilator management, hemodynamic monitoring and other critical care interventions. (Drs. William Crosland, Louis Lovett and Andrew Zadoff)

GMED 5074 Pulmonary Critical Care  
All MCG students rotating at or through Trinity Hospital of Augusta and University Hospital for this elective must complete and submit a (1) copy of student ID badge, (2) current copy of PPD, (3) signed safety instructions form, (4) signed educational training program agreement form, (5) signed authorization for release of records and information form and (6) signed confidentiality statement, (7) background check that has been conducted within the past two years documenting no criminal history and (8) 10-panel drug screen to Lizandrea Jones at least 30 DAYS PRIOR to the start of your rotation. You will not be able to start your rotation until this documentation has been submitted to and approved by Lizandrea Jones; (706) 721-2055.

Location: Trinity Hospital and University Hospital  
Augusta, GA  
Enrollment: Maximum: 1  
Prerequisites: Phase 3 Core Curriculum and department approval  
Duration: One Month  
Months Offered: September, November, January and March ONLY – By Departmental Arrangement

Objectives:  
Knowledge:  
- Pulmonary infections  
- Ventilator management  
- Fluid management  
- Differential diagnosis of infiltrates on chest x-ray

Skills:  
- Consultation in a specialty  
- Thoracentesis  
- Central lines  
- Bronchoscopy

Activities:  
- Interaction with nurses and patients  
- Interaction with other physicians  
- Ethics in the critical care setting  
- Overall professional attitude

Assessment:  
The attending physician(s) directly observes and grades.

BULLETIN DESCRIPTION  
Procedures, direct patient responsibilities and one on one interaction with attending. (Contact Lizandrea Jones, (706) 721-2055)

GMED 5077 Adult Ambulatory Selective  
It is highly recommended that this selective is not scheduled during months of residency interviewing.

Location: GRU Hospital and VA Medical Center; Multiple off-campus sites; Sites may vary by month  
Enrollment: Minimum: 1 Maximum: 20  
Exceptions: May/June Min: 1 Max: 6  
Prerequisites: Phase 3 Core Curriculum  
Duration: One Month  
Months Offered: July through June

Goals:  
To provide students with a broad exposure to the clinical problems, settings and skills which make up the ambulatory practice of Internal Medicine.

Objectives:  
Knowledge:  
- Understand the pathophysiology, diagnosis and evidence-based management of common problems encountered in outpatient Medicine.  
- Learn about sub-specialty management of specific referred problems.  
- Understand appropriate utilization of resources as a part of medical practice.

Skills:  
- Perform a problem-focused history and physical examination.  
- Counsel patients regarding health behaviors.  
- Management multiple medications for complex patients.  
- Coordinate care among several treating physicians.

Attitudes:  
- Compassion  
- Responsibility  
- Self-evaluation  
- Desire to learn

Activities:
- General Internal Medicine clinics
- Sub-specialty Medicine clinics
- Ambulatory cases and questions
- Evidence-based problem write-up
- Observed history and physical examinations

Are there didactic lectures: NO
Does elective involve inpatient experience? NO
Does elective involve outpatient experience? YES: 40 hours per week
There will be one-half day per week time allotted for independent study.

Assessment:
The final grade will be composed of:
Evaluation of preceptors: 50%
Completion of electronic cases and questions: 20%
One evidence based problem write-up: 10%
Two observed history and physical examinations: 20%

Unique characteristics of the elective: Fourth year students bring a higher level of clinical skill to the rotation than when similar rotations were done in the third year. This should promote greater independence in assigned responsibilities at each site. The skills taught in this rotation will be extremely applicable to the Clinical Skills test.

**GMED 5078 Introduction to Rheumatic Diseases**

Location: GRU Hospital and Clinics
Augusta, GA
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: None
Duration: One Month
Months Offered: July through June

Goals:
This third year elective rotation is an introduction to musculoskeletal disorders and systemic inflammatory disease states in an ambulatory setting. Supervised by attending physicians, students will participate in primarily outpatient consultations, participate in teaching conferences, gain experience in pertinent diagnostic procedures, evaluate and follow patients in the faculty and fellow practices, and learn pathophysiology, differential diagnosis, clinical manifestations, management, and therapy of rheumatic diseases.

Objectives:
Knowledge:
- This rotation provides each medical student with the opportunity to acquire the basic medical knowledge, history-taking skills and clinical skills to diagnose and treat patients with rheumatic diseases.
- The rotation provides exposure to patients with common rheumatic disease complaints.

Lecture Hrs: 1-2 hours
Clinic Hrs: 40 hours
Other: Radiology teaching sessions

Skills:
- Perform a thorough patient history and physical exam and with a particular emphasis on a complete musculoskeletal examination.
- Formulate a basic differential diagnosis and request appropriate laboratory studies.
- Interpret the laboratory studies including fundamental immunological laboratory tests results.
- Become familiar with Rheumatologic modalities, including indications for specific anti-inflammatory therapies, soft tissue injections, joint aspirations and injections, corticosteroids and rheumatic disease modifying agents.
- Observe and possibly perform soft issue injections and a knee arthrocentesis during the rotation.

Attitudes:
- Social responsibility
- Compassion
- Professionalism
- Commitment to excellence and life-long learning

Activities:
- Rheumatology Outpatient clinics both at the Medical College of Georgia and Veteran’s Administration Medical Center
- 8:30 a.m. - 5:00 p.m. Students will be at the clinic on weekdays.
- No Call Responsibilities – and there are no inpatient hospital responsibilities

Are there didactic lectures: YES; 1-2 hours per week
Does elective involve inpatient experience? NO
Does elective involve outpatient experience? YES; 40 hours per week

Assessment:
The Section Chief of Rheumatology will complete the MCG Student Program Evaluation form and will assign a grade for the rotation. The evaluation will be discussed with the student.

Unique characteristics of the elective: The Section of Rheumatology takes great pride in its teaching mission. Teaching of all trainees is a principal priority by all faculty members and fellows. The collegial atmosphere fostered by this teaching commitment and patient care emphasis makes student learning a natural outgrowth of this highly professional and enriching environment on the Rheumatology Service.

**BULLETIN DESCRIPTION:**
A clinical multidisciplinary experience covering an introduction to the fundamentals of rheumatic diseases with a basic core of material pertinent to major diseases in this area; experience with a consultative service with a wide array of rheumatic disease conditions. (Drs. Bruce Goeckeritz and Walter Moore).

**GMED 5079 Substitute Internship – Off Campus**

Location: Off Campus
Enrollment: Maximum: 2
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through April
Student call: As per program
**Goals:**
To further enhance the clinical skills necessary to begin transitioning to residency.

**Objectives:**

**Knowledge:**
- Broad depth of knowledge, which encompasses the field of internal medicine.

**Seminar Hrs:** 1 hour per week

**Clinical:** 40-60 hours per week

**Skills:**
- Basic clinical procedures; chest x-ray interpretation; EKG interpretation.

**Attitudes:**
- Learning to be a patient advocate.

**Activities:**
As per program. Program must provide a description/listing of the activities prior to approval.

**Assessment:**
- Assessment of skills including history and physical, case presentations, problem solving ability and generation of appropriate diagnostic and therapeutic options.

**BULLETIN DESCRIPTION**

Students taking the acting internship at an off campus site will essentially function as an intern on the team, admitting patients in sequence with the interns and working directly under the resident. Acting interns will be expected to attend all conferences the interns attend. The acting intern will complete the initial work up and determine the treatment plan in conjunction with the resident. The acting intern will function as the primary care physician for his/her patients but will be closely supervised in all activities by the resident and attending faculty physician. The acting interns on call schedule will be identified to that of the ward team.

**NOTE:** This elective must be discussed with and approved in advance by Dr. Pamela Fall. It will only be approved at an academic institution, which does have medicine house staff, and it must give the student all of the experiences and responsibilities that he/she would have as a substitute intern at MCG.

**GMED 5082 – Rheumatology Elective**

**Location:** Phoebe Specialty Medical Clinic, Albany, GA

**Enrollment:** Minimum: 1 Maximum: 1

**Prerequisites:** Completion of Medicine Clerkship

**Duration:** 4 weeks

**Months Offered:** July, September, November, January, March and May

**Goals:**
To teach the student the fundamentals in dealing with patients with rheumatic disorders.

**Objectives:**
- Obtain a complete and accurate history and physical examination with enhanced emphasis on the nuances of a rheumatic history and appropriate musculoskeletal exam.
- Present a focused and comprehensive evaluation of a patient in a clear and concise manner.
- Document in writing a focused and comprehensive evaluation of a patient in a clear and concise manner, again with appropriate expansion of the musculoskeletal history and physical exam.
- Interpret basic musculoskeletal x-rays, rheumatic labs and become comfortable with the preparation of synovial fluid analysis.

**Activities:**
Two complete patient evaluations per week. Working with the rheumatology staff to increase exposure to the field of rheumatology disorders in an outpatient and inpatient setting. Four 30 minute one on one conferences with staff on selected rheumatic topics. Independent study of selected rheumatic topics obtained from “Primer of Rheumatic Disease”.

**Lectures Hours:** 2  **Clinic Hours:** 40 hrs/wk

**Lab Hours:**  **Seminar Hours:**

**Small Group:**  **Other:**

**Assessment:**
Clinical performance evaluation by faculty to assess the following skills:
- History and physical examination with emphasis on the musculoskeletal exam.
- Case presentation
- Medical documentation
- Professionalism

Contact person: Christa Thrower /229-312-1426

Name of Preceptor: Dr. James L. Perruquet, and Dr. Nilofer Ahsan

**GMED 5083 Substitute Internship**

Must be a residential student assigned to the NE/NW/SE/SW Regional Campus

**Location:** Various - NE/NW/SE/SW

**Enrollment:** Maximum: 1 student per month

**Prerequisites:** Phase 3 Core Curriculum and appropriate departmental and regional campus approval

**Duration:** One month

**Months Offered:** July through April

**Goals:**
To further enhance the necessary clinical skills in Internal Medicine to begin transitioning to residency.

**Objectives:**
- **Knowledge:** Broad depth of knowledge in the field of Internal Medicine including diagnostic abilities, physical examination skills and formation of an assessment and plan tailored to a specific patient.
- **Skills:** Basic clinical procedures; chest x-ray interpretation; EKG interpretation; ICU management; communication skills with families and other doctors.
Attitudes: Learning to work as an integral part of a Hospitalist team; learning to be a patient advocate and accept full ownership of patients.

Activities:
- Rounding on 6 to 10 patients per day including ICU and ward patients
- Medical consultation and ER admissions
- History and physical write-ups – two formal write-ups per month
- Formal case report to Hospitalist team – one per month

Assessment:
- Assessment of skills including history and physical, case presentations, problem solving ability and generation of appropriate diagnostic and therapeutic options.

Hours: Seminar hours – 2 to 4 per week
Clinic hours – 55 to 70 per week

(Contact Lizandrea Jones, (706) 721-2055)

**GMED 5084 Community Based General Internal Medicine**
Must be a residential student assigned to the NE/NW/SE/SW Regional Campus

Location: NE/NW/SE/SW Campus
Enrollment: Max: 12
Prerequisites: Must be a residential student assigned to the NE/NW/SE/SW Regional Campus
Duration: 1 month
Months Offered: By arrangement through the NE/NW/SE/SW Campuses and departmental approval

Course Description: Special arrangements can be made for elective periods of one month in the Northeast, Northwest, Southeast and Southwest campus locations. These electives can be spent in specialties.

Lecture Hrs: Clinic Hrs: 40 hrs/wk
Lab Hrs: Seminar Hrs: Other:
Small Group: Other:

**GMED 5094 Practice Management**
Location: GRU
Enrollment: Minimum 3 Maximum: 8
Prerequisites: None
Duration: One month
Months Offered: October and April

Goals: Become proficient in financial analysis, marketing, team building and work flow so you can help improve an existing medical practice or maximize efficiency and profits within your new practice.

Objectives:
- Identify trends and best practices
- Read and interpret medical practice financial statements
- Evaluate opportunities of joining, starting or buying an existing practice
- Calculate the true cost of medical services
- Develop marketing strategies based on market research and patient needs
- Communicate effectively with patients, staff and colleagues

Activities:
The practice management rotation includes 48 hours of course study (two 8-hour days per week for first three weeks), 3 hours of group work per week for the first three weeks and 40 hours for a practice evaluation the 4th week. The fourth week requires a commitment of five 8-hour days.

Teaching activities with time commitment per week:
Lecture Hours: 16
Clinic Hours:
Lab Hours: Seminar Hours:
Small Group: 3
Other: 40 (practice eval.)

Grading method: ABCDF

Arrangements for this elective should be made through the Department of Medicine, Medical College of Georgia by contacting Liz Jones (706) 721-2055. Dr. T. Andrew Albritton is the course director for this rotation.

**GMED 5095 – Palliative Care – SW Campus**
Location: Off-Campus – SW Campus - Dr. Lane Price, Albany, GA
Enrollment: Maximum: 1
Prerequisites: None
Duration: One Month
Months Offered: By arrangement with Dr. Price through the SW campus Interim Dean, Dr. George Chastain

Goals:
Develop an understanding of caring for patients with chronic conditions and at the end-of-life with an emphasis on palliative care.

Objectives:
At the end of this rotation, students will be able to:
- Create a flexible pain management plan for a patient in pain
- Explain the pharmacology of common analgesics, particularly opioids
- Describe bioethical and legal issues related to end of life care
- Manage symptoms commonly encountered at the end of life in the long-term care setting, such as constipation, dyspnea, anxiety, anorexia, weakness, depression and delerium
- Communicate effectively with family members in addressing their concerns about the patient
- Describe the role of other disciplines in end-of-life care
- Describe the multiple determinants of suffering: physical, psychological, social and spiritual

Activities:
Students will see patients at the hospice in Albany with Dr. Price office during the day and hospital consultations. Student will be able to participate in interdisciplinary team discussions about patient care.

Resources:
Clinic Hrs: Approximately 160 per month

**GMED 5096 – Internal Medicine Outpatient Elective**

Location: MCG Campus  
Enrollment: Maximum: 2  
Prerequisites: Phase 1, Phase 2, Step 1  
Duration: 4 weeks  
Months Offered: July through June

**Goals:**
Provide medical students with patient based, clinically oriented exposure to outpatient Internal Medicine.

**Objectives:**
- Advance skills in history-taking and physical examination  
- Learn concepts and scope of outpatient Internal Medicine  
- Improve communication skills with patients and families  
- Expand patient education skills  
- Improve communication skills with colleagues and staff  
- Become familiar with the role of a primary care physician in the health care team

**Course Activities/Assessment:**
Interactions and learning opportunities will be conducted in the outpatient clinic setting. Students will rotate through General Internal Medicine clinic, Podiatry clinic, Allergy and Immunology clinic and Endocrinology clinic. The majority of the time will be spent in General Internal Medicine.

**Grading:**
Students will be assessed by a daily student evaluation which incorporates patient care skills, professionalism, communication skills and knowledge. They will also be required to complete a Mini-Clinical Evaluation Exercise at the end of the rotation.

**Resources:**
Lecture Hours:  
Lab Hours:  
Small Group:  
Clinic Hours: 40  
Seminar Hours:  
Other:

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**Nephrology**

**GMED 5016 Nephrology Consult Elective**

Location: GRU Hospital and Clinics  
Augusta, GA  
Enrollment: Minimum: 1 Maximum: 2  
Prerequisites: Medicine Core  
Duration: One Month  
Months Offered: July through June

**Goals:**
To understand the practice and principles of consultative Nephrology.

**Objectives:**
- Understand pathophysiology and management of acute renal failure.  
- Understand pathophysiology of acid-base disorders.  
- Understand pathophysiology of electrolyte disorders.  
- Understand the various modes of dialysis.  
- Understand the co-morbidities associated with chronic renal failure.

**Skills:**
- Perform urinalysis.

**Attitudes:** To be accepting of patients with chronic disease.

**Activities:**
- Inpatient consultative wards.  
- Outpatient clinic.  
- Observe renal biopsies and placement of central venous access.

Are there didactic lectures: YES; 4 – 6 hours  
Does elective involve inpatient experience? YES; 40 hours per week  
Does elective involve outpatient experience? YES; 4 hours per week

**Assessment:**
Clinical grade based on performance and knowledge.

**Unique characteristics of the elective:**
Active consultation service following patients with complex problems in the ICU and on the inpatient wards. Learn the skills needed to perform a urinalysis.

**BULLETIN DESCRIPTION**
Experience in clinical nephrology through participation in inpatient consultations, teaching conferences, and once weekly general nephrology outpatient clinic. (Drs. M. Diamond, P. Fall, M. Jagadeesan, A. Manoharan, L. Mulloy, W. Paulson, and J. White)

**GMED 5081 Community-Based Nephrology Consult**

Location: Augusta, GA  
Enrollment: Minimum: 1 Maximum: 1  
Prerequisites: Medicine Core  
Duration: One Month  
Months Offered: July through June

**Goals:**
To experience the practice and principles of a consultative nephrology service with a particular emphasis on ICU nephrology, principles of dialysis, and fluid and electrolyte management.

**Objectives:**
- Understand pathophysiology of renal dysfunction to include acute and chronic renal disease.  
- Understand pathophysiology of acid-base disorders.  
- Understand pathophysiology of electrolyte disorders.  
- Understand the general principles of dialysis with special emphasis on biomechanics, hemodialysis access, and complications.
• Understand the co-morbidities associated with chronic renal failure.

Skills:
• Further develop physical examination skills.
• Performing and interpreting the urinalysis.
• Assisting with hemodialysis access placement.

Attitudes:
• To be accepting of patients with chronic disease.

Activities:
Inpatient consultative wards. Very active intensive care unit service. Outpatient dialysis units to develop an understanding of chronic dialysis. Observe renal biopsies and placement of hemodialysis catheters.

Are there didactic lectures: YES; 4 – 6 hours
Does elective involve inpatient experience? YES
Does elective involve outpatient experience? YES;
Inpatient and outpatient experiences with be at least 45 to hour per week.

Assessment:
How will the student be assessed?
Clinical grade based on performance and knowledge

Unique Characteristic of the Elective: Please include special and or unique experiences: Includes things such as exposure to multiple clinical venues, time spent learning/doing procedures, time spent in laboratory, etc. Active consultation service following patients with complex problems in the ICU, inpatient service, and outpatient setting. Opportunities for scholarly activities can also be arranged.

BULLETIN DESCRIPTION
A community-based clinical nephrology elective in the inpatient and outpatient setting.

(Robert J. Shay, MD Contact number is 706-722-0186)

Neurology
(ALL COURSES IN THE NEUROLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

NEUR 5001 Acting Internship in Adult Neurology
Location: GRU Hospital
Enrollment: Maximum: 3 per month at GRU
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
The purpose of this rotation is to further a firm grounding in neurological concepts and in the recognition and initial management of common neurological problems in the inpatient setting.

Objectives:
By the end of the rotation the student should be able to:
• Take an adequate history from a patient with a neurological complaint at the level appropriate for a primary care physician

Assessment:
Lecture Hrs: 3/Wk  Clinic Hrs: 4/Wk
Lab Hrs: -  Seminar Hrs: 4/Wk
Small Group: 0  Other:

Activities:
This elective is designed to provide an introduction into decision making in Neurology. The student will attend Adult Neurology Clinics and participate in the direct evaluation of patients. There is ample opportunity to examine and evaluate patients with a wide range of
neurological problems. A close working relationship with the neurology attending faculty will allow maximal learning potential.

Assessment:
Assessment will be performed by the attending neurologist in consultation with the senior neurology resident on the service.

**NEUR 5005 Computer Applications in Neurology**
- Location: GRU Hospital
- Enrollment: Minimum: 1  Maximum: 3
- Prerequisites: None
- Duration: One to Three Months
- Months Offered: July through June
- Faculty Sponsor: Dr. Michael H. Rivner

**Goals:**
This elective allows the student to develop an understanding of computer applications in Medicine and Neurology.

**Objectives:**
The student will use the Neurology department’s computer system, which consists of 60 computers organized in a local area network using the Netware operating system. Such a system represents the forefront of computerized technology. Many projects are available for the student to work on, including the development of patient databases, artificial intelligence, and signal analysis.

**Activities:**
The student will work on a program under the direction of Dr. Michael Rivner. Programs will be written in C, Basic, Paschal or Fortran. Compilers are available in all of these languages. No prior experience in programming or engineering is necessary. However, such experience is highly desirable. If the student does not have experience in programming, programming will be taught during the elective period, mainly by self study. The following projects are currently active: (1) Neurology patient database, (2) billing systems, (3) EMG signal analysis and spike direction, (4) stroke patient database, (5) decision analysis in Neurology and/or EMG, and (6) generalized systems programming.

**Assessment:**
After the completion of this elective, it is believed that the student will have a firm understanding of the role that computers play in medicine. Completion of this elective will allow the student to become familiar and confident about computer systems in medicine. All students who desire to find out more about this elective are encouraged to contact Dr. Michael Rivner in the Department of Neurology (721-2681).

**NEUR 5006 Clinical and Research Electives in Neurology**
**NEUR 5008 Off-Campus (SEA Form)**
- Location: NEUR 5006–GRU Hospital
- Enrollment: Maximum: 1 per preceptor
- Prerequisites: NEU 5000
- Duration: One to Three Months

**Goals:**
The goals for these research electives will be decided by the individual preceptor in coordination with the student.

**Objectives:**
The objectives for these research electives will be decided by the individual preceptor in coordination with the student.

**Activities:**
The following electives will allow the student an opportunity to concentrate on a specific area of Neurology. Clinical responsibility and/or research opportunities are available. In most instances, the specific program can be tailored to the interests and needs of the student. These electives must be arranged with the individual preceptor at least two months prior to the beginning of the rotation. On campus electives that are available include:

- Clinical Cerebrovascular Disease: (Dr. Fenwick Nichols, 721-4607)
- Clinical Neurophysiology: EEG, EP, Computerized EEG Analysis (Dr. Anthony Murro, 721-3325, Dr. Yong Park 721-3371), Electromyography: (Dr. Michael River, 721-2681).
- Epilepsy: (Dr. Anthony Murro, 721-3325 and Dr. Yong Park, 721-3371).
- Sleep Disorders: (Dr. Yong Park, 721-3371).
- Experimental Transplantation in Neonatal Brain Injury: (Dr. James Carroll, 721-3371).
- Neuromuscular Disease: (Dr. Michael Rivner, 721-2681).
- Ultrasound in the Evaluation of Cerebrovascular Disease (Dr. Fenwick Nichols, 721-4607).
- Endothelial Cell in Strokebasic Research (Dr. David Hess, 721-1691).
- Movement Disorders: (Dr. Kapil Sethi, 721-2798).

Other electives may be arranged with individual preceptors.

**Assessment:**
Assessment will be done by the preceptor.

**NEUR 5009 Acting Internship in Child Neurology**
- Location: CMC
- Enrollment: Maximum: 1 per month
- Prerequisites: NEU 5000
- Duration: One Month
- Months Offered: July through June

**Goals:**
The purpose of this rotation is to further a firm grounding in neurological concepts and in the recognition and initial management of common neurological problems in the pediatric inpatient and outpatient setting.

**Objectives:**
By the end of the rotation the student should be able to:
- Take an adequate history from a patient with a neurological complaint at the level appropriate for a primary care physician
- Perform a valid and thorough neurological examination on such a patient
- Understand how to localize lesions within the nervous system
- Diagnose and initially manage common neurological problems including: acute weakness, altered mental status, speech and language problems, stroke, seizures, coma, intracerebral hemorrhage, CNS infection, acute visual changes, and developmental delay

Lecture Hrs: 3/wk  Clinic Hrs: 15/week  Lab Hrs: 0  Seminar Hrs: 4/week  Small Group: 0  Other:  Activities:
This is a patient care elective. The student will have primary care responsibility for a block of child neurology patients. The student will participate in rounds and conferences and will assist with the diagnostic procedures involving his/her patients. The student will be expected to participate with housestaff. (Contact Dr. James Carroll, 721-3371).

Assessment:
Assessment will be performed by the attending neurologist in consultation with the senior neurology resident on the service.

**Obstetrics and Gynecology**

*(ALL COURSES IN THE DEPARTMENT OF OBSTETRICS AND GYNECOLOGY WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)*

**OBGN 5001 Obstetrics and Gynecology**

Hospital/Medical School:
Location: Off Campus Hospital or Medical School
Enrollment: Indefinite
Prerequisites: Satisfactory Completion of OBGN 5000
Duration: One to Two Months
Months Offered: July through June

Goals:
To provide more hands on experience in the field of OB/GYN

Objectives:
To provide in-depth knowledge, independent thinking and develop patient care plans – patient care, both in-house and in clinical settings.

Activities:
Varies depending on hospital and/or medical school.
Lecture Hrs: Clinic Hrs: 1-2
Lab Hrs: Seminar Hrs: 0
Small Group: Other: 0

Assessment:
- OB/GYN knowledge and understanding

**OBGN 5005 Maternal Fetal Medicine Elective**

Location: GRU Hospital
Enrollment: Minimum: 1  Maximum: 1
Prerequisites: Satisfactory Completion of OBGN 5000
Duration: One Month
Months Offered: July through June (July - October reserved for students choosing OBG as Advisor)

Goals:
To provide student with a broader experience in Maternal Fetal Medicine.

Objectives:
Student will gain in-depth knowledge in the care of high risk obstetrics patients.

Activities:
This is a clinically oriented block of time during which the student will participate in the antepartum, and outpatient care of high risk obstetric patients. Responsibilities are those of a sub-intern working closely with the OB housestaff. The student will also present cases at the clinical conferences dealing with high risk pregnancies, and be responsible for any assigned reading material. The student will make an in-depth presentation on topic to be determined at the beginning of the rotation. The student will attend weekly perinatal conference, monthly ultrasound conference, and monthly MFM-NICU conference.

Lecture Hrs: 1-2  Clinic Hrs: 8-10  Lab Hrs: 0  Seminar Hrs: 1-2  Small Group: 1-2  Other:  Activities:

Assessment:
- Knowledge and understanding of the physiology and pathophysiology of pregnancy as well as the principles of management of high risk pregnancy
- Skill in obtaining clinical information
- Ability to correctly interpret results
- Competence in developing a diagnosis with particular emphasis on identification of high risk factors
- Responsibility in providing continuing care
- Reliability
- Effectiveness of interpersonal relationships
- Required library research of assigned topic at beginning of the rotation

Unique Characteristics of the Elective:
This elective is by arrangement only. You must contact Dr. Paul Browne Ext. 1-3991 and the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu.

**OBGN 5006 Reproductive Endocrinology, Infertility and Genetics Elective at GRU**

**Location:** GRU Hospital  
**Enrollment:** Minimum: 1 Maximum: 1  
**Prerequisites:** Satisfactory completion of OBGN 5000  
**Duration:** One Month  
**Months Offered:** July through June (August through October-Reserved for students choosing OBG as advisor)

**Goals:**
Student will be able to understand and manage patients with complex reproductive problems including infertility, menstrual disorders, congenital anomalies of the reproductive tract, and genetic disorders.

**Objectives:**
The general diagnostic areas, which will be covered, are as follows:
- Evaluation, diagnosis and management of couples with infertility
- Learning to take a pedigree to analyze genetic disease
- Diagnosis and management of menstrual dysfunction
- Diagnosis and management of androgen overproduction
- Knowledge of gross and microscopic pathology relating to Reproductive Endocrinology
- Contraception and family planning
- Observation of reconstructive and reparative surgery involving congenital and acquired defects of the female genital tract
- Gross and microscopic pathology relating to reproductive endocrinology
- Basic knowledge of the pharmacology of hormones
- Preconceptional and genetic counseling and prenatal diagnosis
- In-Vitro fertilization

**Assessment:**
- Knowledge of Reproductive and Genetic Disorders
- Ability to assimilate clinical data and arrive at a proper diagnosis
- Technical skill
- Responsibility in providing continuing care
- Reliability
- Effectiveness of interpersonal relationships
- Recognition of responsibilities
- Ability to manage emergencies and/or urgent problems appropriately

Unique Characteristic of the Elective:
This elective is by arrangement only. Please contact Dr. Layman ilayman@gru.edu and the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu.

**OBGN 5007 Elective in Gynecologic Oncology (SEA Form)**

**Location:** GRU  
**Enrollment:** Minimum: 1 Maximum: 1  
**Prerequisites:** Satisfactory Completion of OBGN 5000  
**Duration:** One Month  
**Months Offered:** July through June (July through October–Reserved for Students choosing OBG as advisor.)

**Goals:**
To expose students to various gynecologic oncology patients and procedures

**Objectives:**
Students will gain the knowledge of the care and management of gynecologic oncology patients.

**Activities:**
The student will participate in all aspects of gynecologic oncology within a high volume GYN ONC practice. Involvement includes participation in work up, treatment and follow-up with comprehensive care inclusive of associated physical and mental health issues. He/she will also be exposed to a high volume of surgery from routine hysterectomies to complex oncologic procedures like radical hysterectomies, bowel and urologic surgery, as well as minimal access surgery such as Da Vinci robotic surgery. The student will be instructed in the use of specialized instruments in female genital cancer, such as the LASER, LLETZ and the administration of chemotherapy. Clinic time will consist of examining patients, under supervision, who are pretreatment gynecologic oncology patients. He/she will observe the use of colposcopy, cryotherapy, outpatient cystoscopy and special biopsy procedures involving the female genital tract cancers and their precursors.

**Assessment:**
- Lecture Hrs: 1-2  
- Clinic Hrs: 8-12  
- Lab Hrs: 0  
- Seminar Hrs: 2-4
Small Group: 1-2 Other

Assessment:
- Knowledge of malignant or premalignant female genital tract conditions
- Ability to assimilate clinical data and arrive at a proper diagnosis
- Technical skill
- Responsibility in providing continuing care
- Reliability
- Effectiveness of interpersonal relationships
- Ability to manage emergencies and/or urgent problems appropriately and the ability to manage sick patients

Unique Characteristics of the Elective: This elective is by arrangement only. You must contact the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu

**OBGN 5008 Elective in Benign Gynecology**

Location: GRU
Enrollment: Minimum: 1 Maximum: 1
Prerequisites: Satisfactory Completion of OBGN 5000
Duration: One Month
Months Offered: July through June (October–Reserved for Students choosing OBG as advisor.)

Goals:
To expose medical students to various types of gynecologic problems and procedures.

Objectives:
To understand the care and management of benign gynecological patients.

Activities:
The student will participate in the expanded management of inpatient and outpatient gynecology patients. The student’s outpatient experience will include exposure to patients with common problems, as well as routine preventative care. The outpatient experience will also include exposure to, ultrasound and colposcopy. The inpatient experience will consist of participation in the operating room, inpatients consults, and following assigned patients. Students will be responsible for their assigned patients and will be expected to function at the level of an intern.

Lecture Hrs: 1-2 Clinic Hrs: 8-10
Lab Hrs: 0 Seminar Hrs: 2
Small Group: 1-2 Other

Assessment:
- Knowledge and understanding of gynecologic disorders
- Ability to assimilate clinical data and arrive at a proper diagnosis
- Technical skill
- Responsibility in providing continuing care
- Reliability
- Effectiveness of interpersonal relationships

Unique Characteristics of the Elective:
This elective is by arrangement only. You must contact the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu

**OBGN 5009* Substitute Internship**

Location: GRU Hospital
Enrollment: At GRU: Maximum of 4 students per rotation (One student in Gyn Oncology, one student in Maternal-Fetal Medicine, one in Benign Gynecology, and one student in Urogynecology.)
Prerequisites: Phase 3 Core Curriculum
Duration: Four Weeks
Months Offered: July through June

Goals:
To provide student with in-depth experience in an OB-GYN specialty and a higher level of responsibility on a healthcare team.

Objectives:
1. Student will gain in-depth knowledge in the care of high risk obstetrics patients, general gynecology patients, or patients with gynecologic malignancies or urogynecology patients.
2. Student will fulfill a particular set of responsibilities, typical of those expected of interns.

Activities:
This is a clinically oriented block of time during which the student will function as an active member of an OB-GYN specialty team. Responsibilities are those of a sub-intern working closely with the OB house-staff. These will be specified by the clerkship director and reviewed with the student at the start of the rotation. The student will be expected to present cases at clinical conferences specific to their service, and be responsible for any assigned reading material.

Lecture Hrs: 1-2 Clinic Hrs: 8-10
Lab Hrs: 0 Seminar Hrs: 1-2
Small Group: 0 Other

Assessment:
- Knowledge and understanding of the physiology and pathophysiology of OB-GYN problems specific to the chosen service
- Skill in obtaining clinical information
- Ability to correctly interpret results
- Competence in developing a diagnosis with particular emphasis on identification of high risk factors
- Responsibility in providing continuing care
- Reliability
- Effectiveness of interpersonal relationships

Unique Characteristics of the Elective:
This elective is by arrangement only. You must contact the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu.
OBGN 5011 Molecular Studies of Reproductive Endocrine Disorders Research Elective

Location: GRU, IMMAG  
Enrollment: Minimum: 1 Maximum: 2  
Prerequisites: Satisfactory Completion of OBGN 5000  
Duration: One Month (or more if desired and depending upon availability)  
Months Offered: Potentially Any Month (negotiable)

Goals:
To provide the student with research opportunities and the student will use molecular genetics techniques to study the basis of reproductive processes.

Objectives:
These studies will provide the student with an exposure to molecular analysis and the ability to relate it to clinical problems in reproductive medicine.

Activities:
The emphasis of the laboratory is on the genetic basis of puberty and reproduction using human disease models as hypogonadotropic hypogonadism/ Kallmann syndrome and congenital anomalies. The student will perform molecular procedures under supervision to identify mutations in human disease. The interested student will have an excellent chance to be involved in abstract publication with eventual journal publication. These studies will provide the student with an exposure to molecular analysis and relate it to clinical problems in reproductive medicine. General Types of analysis include:

- DNA extraction from peripheral blood
- Understand and participate in primer design and performance of polymerase chain reaction (PCR), and analysis of PCR products by agarose gel electrophoresis
- Variant fragments will then be subjected to DNA sequencing
- Trouble-shooting of laboratory techniques and data analysis
- Plan in design of in vitro studies to document effect of human mutations and correlate with disease phenotype
- Assist in other ongoing experiments in the library
- Summarizing studies performed for abstract publication

Assessment:
Knowledge of reproductive and genetic disorders  
Ability to assimilate data from lab procedures  
Ability to arrive at a proper diagnosis from an analysis of the data  
Technical skill in implementing lab techniques

Unique Characteristics of the Elective: The elective is by arrangement only with Dr. Lawrence C. Layman, Ext. 1-3832, and by the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu.

OBGN 5012 Elective in Urogynecology

Location: GRU  
Enrollment: Min: 1 Max: 1  
Prerequisites: Satisfactory Completion of OBGN 5000  
Duration: One Month  
Months Offered: July through June

Goals:
To provide experience in the OR, clinic, inpatient and outpatient management of urogynecology patients.

Objectives:
To understand the inpatient and outpatient care and management of urogynecology patients.

Activities:
The student will participate in the management of inpatient and outpatient urogynecology patients. The inpatient experience will consist of participation in the operating room for urogynecology, advanced laparoscopy and robotic surgery. Students will follow assigned patients both preoperatively and postoperatively. Students will be responsible for their assigned patients and will be expected to function at the level of an intern.

Assessment:
Knowledge and understanding of urogynecologic disorders  
Ability to assimilate clinical data from patients with urogynecologic disorders  
Ability to arrive at a proper diagnosis from an analysis of the clinical data  
Technical skill in implementing treatment  
Responsibility in providing continuing care  
Reliability  
Effectiveness of interpersonal relationships  
Recognition of responsibilities  
Ability to manage emergencies and/or urgent problems appropriately

Unique Characteristics of the Elective:
This elective is by arrangement only. You must contact Dr. Brent Parnell, Ext. 1-3832 and the Clerkship Coordinator, BA-7300, 1-2543, ybooker@gru.edu.

**OBGN 5015 (formerly FMPC 5022)
CerviCusco, Peru (International Women’s Healthcare)**

**Location:** CerviCusco, Cusco, Peru  
**Prerequisites:** Ideally, Phase 3 Core Curriculum, to maximize the clinical experience, however, the elective may be selected at any time.  
**Duration:** 4 weeks  
**Months Offered:** July-June  
**Course Director:** Dr. Daron Ferris

**Goals:**
This goal of this elective is to provide an international women’s health experience at a clinic that focuses on cervical cancer prevention, screening, diagnosis, and treatment.

**Objectives:**
The student will be able to:
- Collect basic cervical cancer screening tests  
- Perform focused gynecologic examinations  
- Conduct a colposcopic examination of the lower genital tract with assistance  
- Discuss management strategies for women with lower genital tract neoplasias  
- Perform simple office-based laboratory tests  
- Develop and improve Spanish language skills  
- Interact with a Peruvian health care team

**Activities:**
Students will help provide patient care to impoverished indigenous women living in the Andes Mountains of Peru. The clinic, CerviCusco, is located in Cusco, Peru once the capital of the Inca Empire. CerviCusco operates as a Peruvian registered non-government organization (NGO). The clinic will operate from approximately 8:00 AM to 2:00 PM Monday through Friday. Students will be supervised by a Peruvian physician employed by CerviCusco and also by MCG faculty when available. Optional rural clinical experiences will be available during certain times of the year. A hospital experience may also be arranged for interested students. Students will be assigned reading material and undergo a written examination at the completion of the course. Students will also be required to submit a brief “impact” report describing the essence of the international experience. The cost of travel, housing, meals, vaccinations, medical evacuation insurance will be assumed by the student.

**Lecture Hrs:**  
Clinic Hrs: 30 hours/week @ CerviCusco.  
Lab Hrs:  
Clinic Hrs:  
Seminar Hrs:  
Other: 10 hours/wk other clinical sites and/or self learning program.

**Assessment:**
Based on: a) an evaluation by the Peruvian medical staff; b) results of post course examination and c) impact report

**Contact Person:**  
Daron Ferris, MD, Department of Obstetrics and Gynecology at GRU extension 2535.

Department of Obstetrics and Gynecology Student Coordinator, ext. 1-2543.

**Ophthalmology**
*(ALL COURSES IN THE OPHTHALMOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)*

All changes, additions, and deletions in Ophthalmology including off campus electives should be coordinated through the Ophthalmology Office, Kimberly Garrett, Ext. 1-6175.

**OPTH 5001 Ophthalmology Clerkship**

**Location:** Dept. of Ophthalmology, GRU Eye Care  
**Enrollment:** Minimum: 1 Maximum: 4  
**Prerequisites:** None  
**Duration:** One month for OPH5001  
**Months Offered:** July through June

**Goals:**
To provide an introduction to clinical ophthalmology.

**Objectives:**
- Develop basic understanding of ophthalmology disease processes and treatments  
- Learn basic ophthalmology examination skills  
- Develop a differential diagnosis, given common presenting eye symptoms

**Activities:**
Participation and observation of clinical practice in a hospital based practice. Observation of ophthalmologic surgery.

**Assessment:**
Based on resident and attending comments on student performance and skills. Each student is expected to prepare and present at Grand Rounds a report of an interesting case that they saw during their elective.

**OPTH 5002 Ophthalmology Research Elective**

**Location:** Dept. of Ophthalmology, GRU  
**Enrollment:** Minimum: 1 Maximum: 2  
**Prerequisites:** None  
**Duration:** One to Two Months  
**Months Offered:** July through June

**Goals:**
To develop a both clinical or basic science research skills and experience in ophthalmology.
Objectives:
To provide a medium to expose students to the research opportunities afforded in ophthalmology and be part of a research team and project.

Activities:
To be determined by faculty and student (see below)

Assessment:
All student applicants must be interviewed by the doctor with whom they would be doing the research. An area of mutual interest to the student and faculty supervisor will be selected and the student will outline his research project with literature references and carry it out under supervision. A written report on the project is required at the end of the elective period.

Faculty:
- Basic Eye Research: Drs. Azza El-Remessy, Mohamed El-Shabrawey, Alan Saul, Sally Atherton, Ruth Caldwell, Gregory Liou, Manuel Bartoli, Sylvia Smith, Graydon Gonsalvez, and Kathryn Bollinger, Jay Hedge and Zhiyong Yang
- Clinical Research: Drs. David Bogorad, Stephanie Goei, Julian Nussbaum, John Riffle, Dilip A. Thomas, Kathryn Bollinger, Amy Estes, Summer Fishbein, and Lane Ulrich and Diego Espinosa-Heidman

**OPTH 5003 Ophthalmology Off Campus Experience**

Location: Must be arranged and approved in advance with appropriate support documents (see below) provided at time of registration.

Enrollment: Minimum: 1 Maximum: 6

Prerequisites: None

Duration: One to Two Months

Months Offered: July through June

Goals:
To provide exposure to clinical ophthalmology in an outside institution.

Objectives:
As outlined by outside department.

Activities:
As outlined by outside department.

Assessment:
As determined by outside institution. A written evaluation must be submitted to MCG at the end of the rotation. Written approval must be obtained in advance from both the GRU Department of Ophthalmology and the department where the off campus elective is taken. Credit for the course will not be given until all of the above have been satisfactorily completed.

**Post Graduate Training Programs–Ophthalmology**

Julian J. Nussbaum, M.D. Professor and Chairman; Lane Ulrich, M.D., Residency Director

Three residents are selected annually for the approved three year residency in Ophthalmology. Emphasis is placed on training physicians in all aspects of clinical ophthalmology and ophthalmic surgery with an opportunity to pursue clinical and basic research. Clinical training is offered at MCG affiliated hospitals. Basic and clinical sciences are taught throughout the residency with formal lectures and conferences given by the faculty as well as visiting lecturers.

**Pathology**

*(ALL COURSES IN THE PATHOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)*

**PATH 5002 University Hospital Pathology Laboratory**

Location: University Hospital, Pathology Laboratory

Enrollment: Minimum: 1 Maximum: 1

Prerequisites: Phase II

Duration: 1 Month

Months Offered: Throughout the year

Goals:
To help students develop skills into diagnostic aspect of Pathology.

Objectives:
- Obtain knowledge of Gross Pathology
- Obtain Knowledge of Microscopic Pathology
- Obtain knowledge of Clinical Pathology (various areas)
- Attend conference, lectures and seminars
- Document working knowledge of Histology and basic Anatomy

Activities:
- Cutting surgical specimens.
- Performing autopsy.
- One on one microscopic case teaching.
- Clinical pathology case teaching (optional).

Lecture Hrs: 3 hrs
Lab Hrs: Small Group: 2 hrs
Clinic Hrs: Seminar Hrs: 3 hrs
Other:

Assessment:
Evaluation performed on following skills:
- Gross examination of surgical specimens.
- Microscopic examination of slides.
- Case presentation.
- Professionalism and attendance.

This elective is by arrangement only. You must contact Dr. K. Sharma, 706-774-5410 or Courtney Sahm, Ext. 1-2897.

**PATH 5003 Surgical Pathology**

Location: GRU Hospital and Clinics, Anatomic Pathology Laboratory

Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Phase II  
Duration: 1 Month  
Months Offered: Throughout the year  

Goals:  
- To observe the practice of anatomic pathology  

Objectives:  
- Learn anatomic pathology procedures and methods of basic diagnosis through rotations in surgical and autopsy divisions in Pathology Department.  

Activities:  
- Participate in routine microscopic sign out with faculty members including biopsies and gross surgical specimens.  
- Review cases with residents and attending pathologists at daily consensus meeting, interdepartmental tumor boards, departmental didactic conferences, and gross specimen and autopsy conferences.  
- Participate in the preparation of frozen section for immediate diagnosis during intraoperative consultations  
- Observe and participate in the performance of postmortem examinations  
- Assist house staff to obtain case related clinical data and communication.  

Lecture Hrs: 4 hrs wkly  
Clinic Hrs:  
Lab Hrs: 40 hrs wkly  
Seminar Hrs:  
Small Group:  
Other:  

Assessment:  
Evaluation performed on the following skills:  
- Assistance in the gross examination of surgical specimens.  
- Assistance in the performance of frozen sections.  
- Assistance in the performance of postmortem examinations.  
- Case presentation.  
- Professionalism and attendance.  

Note: An oral presentation to the Anatomic Pathology Faculty and Residents is necessary to qualify for a grade “A”. The presentation should be a 20-30 minute presentation on an anatomic pathology topic, preferably related to a case that the student encountered during the rotation.  

This elective is by arrangement only. You must contact Dr. Michael Toscano, Ext. 1-3099, Dr. Sravan Kavuri, Ext. 1-6312 or Courtney Sahm, Ext. 1-2897.  

PATH 5009 Clinical Pathology  
Location: MCGHI Clinical Pathology Laboratory  
Enrollment: Minimum: 1 Maximum: 3  
Prerequisites: Phase II  
Duration: 4 Weeks  
Months Offered: January through November  

Goals:  
To help students understand the operation of a clinical diagnostic laboratory and thereby promote effective utilization.  

Objectives: At the end of the rotation, the student should be able to:  
- Properly collect common specimens for chemistry, hematology, blood bank and microbiology testing.  
- Describe the basic methods used for commonly ordered tests and the expected turn-around times.  
- Interpret common laboratory tests and integrate the results into the patient’s diagnostic or treatment paths.  
- Discuss the limitations of commonly ordered tests.  

Activities: The student is expected to devote 30 hours a week to:  
- Clinical Pathology Conference (Tuesdays 8:30 – 10:00) and other sectional conferences.  
- Bench observation with technologists.  
- Weekly or more frequent meetings with Section Director.  
- Chart review and/or interface with clinicians for patients with complex results.  
- Independent study.  

Lecture Hrs: 0  
Clinic Hrs: 0  
Lab Hrs: 15 wkly  
Seminar Hrs: 2 wkly  
Small Group: 2 wkly  
Other: Independent study 11 wkly  

Assessment:  
- Clinical performance evaluation by faculty to assess interpretative and integrative skills.  
- Clinical performance evaluation by technologists to assess understanding of basic testing requirements and methodology.  
- Clinical performance evaluation by pathology residents to assess participation in group learning activities.  

This elective is by arrangement only. You must contact Dr. Gurmukh Singh Ext. 1-2776 or Courtney Sahm, Ext. 1-2897.  

PATH 5011 Basic Neuropathology  
Location: GRU Hospital and Clinics, Murphey Building, Anatomic Path Lab  
Enrollment: Minimum: 1 Maximum: 2  
Prerequisites: Phase 2  
Duration: 1 Month  
Months Offered: September through May  

Goals: Learn basic pathologic diagnostic approach through participation in the surgical and autopsy neuropathology service.  
- To successfully correlate pathologic diagnosis with clinical findings to help optimize therapeutic decision.  

Objectives:
1. To achieve familiarity and basic understanding of pathologic changes involving common disease of the central nervous system, peripheral nervous system and skeletal muscle.

2. To develop basic concepts of diagnostic value of pathologic evaluation of CNS neoplasia, neuromuscular disorders, epilepsy resections, and autopsy neuropathology.

3. To develop basic concepts of clinico-pathologic correlation through close interaction with neuropathologist on daily sign-outs and attending conferences.

4. The potential exists for participation in research and publication.

Activities:
- Participate in routine microscopic sign out with faculty including biopsies and gross surgical neuropathology specimens.
- Understand the importance of frozen section diagnosis during intraoperative consultations.
- Participate in the brain cutting, didactic and case conferences, and neuro-oncology tumor board.
- Assists house staff to obtain case related clinical data.
- Review neuroanatomy and basic neuropathology, on discussions across the microscope, power-point lectures and recommended literature.

Lecture Hrs: 2 hrs wkly  Clinic Hours: Lab Hrs: 5-10 hrs wkly  Seminar Hrs: 5-10 hrs wkly  Small Group: Other:

Assessment:
- Students will be evaluated based on attendance and participation in assigned activities, basic fund of knowledge and progress over the month; with main focus on pathologic diagnosis, pathophysiology, and clinical correlations.
- Toward the end of the rotation, students are encouraged to give a 20-minute talk before the Anatomic pathology faculty and pathology residents on a topic of their interest and strength based on interesting case(s) encountered during this rotation.

This elective is by arrangement only. You must contact Dr. Suash Sharma, Ext. 1-2771, Dr. Rojiani, Ext. 1-2923 or Courtney Sahm, Ext. 1-2897.

PATH 5016 Anatomic Pathology
Location: Laboratory Service, VA Medical Ct.
Enrollment: Minimum: 1  Maximum: 2
Prerequisites: Phase 2
Duration: 1 month
Months Offered: Throughout the year

Goals:
- To help students to perform a number of basic anatomic pathology techniques and apply clinical judgment commensurate with his/her medical knowledge.

Objectives:
- Learn basic diagnosis through surgical and autopsy divisions in Pathology Department.

Activities:
- Perform autopsy and find basic clinical pathologic correlations.
- Participate in processing and examination of surgical pathology and cytology specimens.
- Apply clinical interpretation and medical judgment in such examinations.
- Attend conferences and lectures.

Assessment:
- Evaluation performed on the following skills:
  - Gross examination of surgical specimens.
- Microscopic examination of slides.
- Case presentation.
- Professionalism and attendance.

Note: An oral presentation is mandatory for performance excellence.

This elective is by arrangement only. You must contact Dr. Jeffrey Lee, Ext. 1-2771, Dr. Dr. Sravan Kavuri, Ext. 1-6312 or Courtney Sahm, Ext. 1-2897.

**PATH 5019 Clinical Microbiology**
Location: MCG HI Clinical Microbiology laboratory
Enrollment: Minimum: 1 Maximum: 1
Prerequisites: Medical Microbiology Course
Duration: 4 Weeks
Months Offered: June through November

Goals:
To help students understand the operation of a clinical microbiology laboratory and thereby promote effective utilization.

Objectives:
At the end of the rotation, the student should be able to:
- Properly collect common specimens for microbiology testing.
- Perform and interpret Gram stains, KOH preparations, India ink preparations, and bacterial antigen tests
- Describe the basic methods used for commonly ordered cultures and the expected turn-around times.
- Interpret culture and susceptibility tests and integrate the results into the patient’s diagnostic or treatment paths.
- Discuss the limitations of commonly ordered tests.

Activities:
The student is expected to devote 30 hours to week to:
- Clinical Pathology Conference (Tuesdays 8:30 – 10:00) and other sectional conferences.
- Bench observation with technologists.
- Microbiology rounds daily.
- Chart review and/or interface with clinicians for patients with complex results.
- Independent study or research.

Lecture Hrs: 0  Clinic Hrs: 0
Lab Hrs: 15 wkly  Seminar Hrs: 1.0 wkly
Small Group: 3.0 wkly
Other: Independent study 11 wkly

Assessment:
- Clinical performance evaluation by faculty to assess interpretative and integrative skills.
- Clinical performance evaluation by technologists to assess understanding of basic testing requirements and methodology.
- Clinical performance evaluation by pathology residents to assess participation in group learning activities.

This elective is by arrangement only. You must contact Dr. Gurmukh Singh, Ext. 1-2776 or Courtney Sahm, Ext. 1-2897.

**PATH 5026 Southeast Georgia Health System**
Location: SE GA Laboratory – Brunswick, GA
Enrollment: Maximum: 1
Prerequisites: Phase 2 Pathology
Duration: 1 Month
Months Offered: August through June

Goals:
- To help students develop skill in diagnostic aspects of Pathology.
- Observe first hand how pathology integrates into patient management.
- Allow students to participate in the daily functions of a busy community pathology practice.
- Permit students an opportunity to participate in forensic pathology autopsy cases that are undertaken in as part of functions of the Glynn County Medical Examiners office.

Objectives:
Provide students with an opportunity to rotate through a busy pathology department and experience the full array of daily functions undertaken in such a department.

Activities:
- Daily sign-out with pathologist
- Daily triage of clinical pathology and blood banking problems
- Participation in the gross examination of anatomical pathology cases
- Participation in autopsy service
- Participation in tumor conference
- Participation in frozen section outreach service

Lecture Hrs: 1  Clinic Hrs: 10
Lab Hrs: 10  Seminar Hrs: 1
Small Group: 5  Other:

**PATH 5027 Clinical Hematology**
Location: MCGHI -Clinical Hematology – BI 2024B
Enrollment: Minimum: 1 Maximum: 1
Prerequisites: Phase 2 Pathology
Duration: 1 Month
Months Offered: June through November
By arrangement through the SE/SW Campuses and departmental approval

Goals:
- To help students understand the operation of a Clinical Hematology lab and thereby promote effective utilization

Objectives:
- Learn principles of Coulter Counter, diagnostic use and trouble shooting
- Principles of flow cytometer instrument and method of specimen processing
- Blood smear – preparation method and differential count
• Do differential count of at least 3 smears a day and review with faculty member
• Do bone marrow differential on 2 of the current cases every day and review with faculty
• Observe approximately 5 bone marrow procedures
• Learn principles and working of coagulation instruments
• Hemoglobin electrophoresis, HPLC
• Urinalysis

Activities:
• Clinical Pathology Conference (Tuesdays 8:30 – 10:00) and other sectional conferences.
• Bench observation with technologists
• One hour meeting with Section Director daily
• Heme/Onc conference (Fridays 1:00 pm)
• Independent study

Assessment:
• Clinical performance evaluation by faculty to assess interpretative and integrative skills.
• Clinical performance evaluation by technologists to assess understanding of basic testing requirements and methodology
• Clinical performance evaluation by pathology residents to assess participation in group learning activities.

PATH 5028 – Community Based Pathology Elective

Must be a residential student assigned to the NE/NW/SE/SW Regional Campus.

Subspecialty: Community Based Pathology
Location: NE/NW/SE/SW Campus
Enrollment: Max: 1 student per site
Prerequisites: Phase 2 Pathology
Duration: 1 month
Months Offered: July through June

Goals:
• To help students develop skills in diagnostic aspects of Pathology.
• Allow students to participate in the daily functions of a busy community pathology practice.
• Permit students an opportunity to participate in forensic pathology autopsy cases that are undertaken as part of functions of the County Medical Examiner’s office.

Objectives:
Provide students with an opportunity to rotate through a busy pathology department and experience the full array of daily functions undertaken in such a department.

Activities:
• Daily sign-out with pathologist
• Daily triage of clinical pathology and blood banking problems
• Participation in the gross examination of anatomical pathology cases
• Participation in autopsy service
• Participation in tumor conference
• Participation in frozen section outreach service

Lectures Hours: 0
Clinic Hours: 8 hours per day M-F
Lab Hours: 15 weekly
Seminar Hrs: 1 weekly
Small Group: 3 weekly
Other: Independent Study 11 weekly

Assessment:
The student will be assessed regarding the following skills by the supervising faculty member in the laboratory:
• Gross examination of surgical specimens.
• Microscopic examination of slides.
• Case presentation or brief reports.
• Professionalism and attendance.

This elective is by arrangement only. Enrollment in this elective must be approved by Peggy Cohen (229-312-1451) or Christa Thrower (229-312-1426) in Albany (SW), Vicki Wiles (706-802-5307) Rome (NW), Jeanette Bowman (706-713-2193) Athens (NE), Malinda Moore (912-466-7540) or Kim Chaffin (912-819-8337) in Savannah/Brunswick (SE).

Pediatrics

(ALL COURSES IN THE PEDIATRICS DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

Note: Pediatric electives are of one month duration. Although students may take any elective for two months by special arrangement with the appropriate faculty member, they will only receive one month’s credit for that elective. The Pediatric elective program is coordinated by Dr. Lisa Leggio with the assistance of Kim Curtis in the Pediatric Student Education Office. All changes, additions, and deletions in Pediatric electives, including arrangement for special or off campus electives, should be coordinated through her office, BG 2101B, (706) 721-3781.

Pediatric Sub-Internships are designated by an asterisk*. Due to the limited number of Pediatric Sub-Internships and Critical Care electives available in Augusta, only those students who have declared Pediatrics will be able to sign up during the first six weeks of the elective sign-up period. After this initial six-week sign up period, all students will be able to apply for any available positions, regardless of career choice.

All elective objectives are linked to the MCG Competency Based Objectives in parentheses.
PEDS 5001* Substitute Neonatal Intern

*This elective may fulfill either the Sub-Internship or Critical Care requirement – but not both.

Locations: GRU - Augusta/Albany (SW) /Athens /Columbus (SW)

Enrollment: Max: 2 in Augusta; 1 in Albany and Columbus (when available)

Prerequisites: Phase 3 Core Curriculum

Duration: One Month

Months Offered: July through June

Goals:
To help senior students develop the skills to gain clinical and technical competency in Neonatal-Perinatal Medicine.

Objectives:
At the end of the elective, the student should have developed the following skills:

- Obtain a complete maternal history and physical examination of a sick neonate (2.2)
- Perform a gestational age assessment and understanding the importance of classification of appropriate, small and large for gestational age (1.4, 2.3)
- Understand common disease-related signs and symptoms in neonates (1.3)
- Understand diagnosis, pathophysiology and treatment of common neonatal disorders: respiratory distress syndrome, hypoglycemia, jaundice, apnea, meconium aspiration syndrome, infant of a diabetic mother (1.2, 1.5)
- Understand principles in feeding neonates: parenteral, enteral; types of formulas and indications; types of feeding techniques (1.5, 1.7)
- Understand the transition from in-utero to exutero life and problems in transition (1.1, 1.2)
- Transfer patient care with accurate and efficient handovers between Day Team and Night Team. (4.3)
- Observe (and attempt when possible) umbilical arterial and venous catheterization, endotracheal intubation, and venipuncture under supervision of a resident, fellow or attending physician. (2.4)

Activities:
Each day will involve patient care in the NICU. Students are expected to follow a minimum of 2-3 patients or 2/3 the load of interns on the team and work 4 nights on the Night Team.

If NICU will be taken as a Sub-I:
- Complete a web-based portfolio
- Complete a checklist which will be provided at the beginning of the rotation. Supervising physician will observe the skills below, give feedback and sign checklist card:
  1. admission history
  2. admission and medication orders
  3. discharge summaries

4. written notes
5. portions of the physical exam
- Checklist & Portfolio must be submitted and reviewed before final grade can be released.

Other activities are as followed:
- Daily formal lecture each morning (30-60 min)
- Daily teaching rounds (generally 60-120 minutes)
- Additional teaching: (NRP, nutrition, and others)
- Other: technical skills learned during patient care

Lecture Hrs: 5 Clinical Hrs: 30
Lab Hrs: Seminar Hrs:
Small Group: 10 Other:

Assessment:
Assessment of acquired skills will be discussed at a faculty meeting each month prior to grading the student’s performance using the M3/M4 Student Assessment form. The student will function in the role of a house officer under the supervision of a fellow, neonatal nurse practitioners, and faculty.

Work Hours:
Students will be subject to the same rules as interns. At a minimum the student is expected to work 7:00am until 4:30 pm. Additional hours may be required to complete patient care duties, but should not exceed 80 hours per week. The student should not work more than 16 continuous hours. Students should expect to have an average of one day off in seven with the expectation of working one full weekend. Attempts will be made by the upper level resident to accommodate requests for time off. Students are expected to be present and participate in morning and evening handovers.

- Weekends: Students are required to work 3 weekend days.
- Holidays: Holidays are treated as weekends.
- Nights: Students are required to work 4 nights on Night Team

Unique Characteristics:
Augusta: Non-Peds advisees are required to talk to Dr. Bhatia to get approval to take this elective. You can reach him by calling 721-2331.

NOTE: Dr. Bhatia can only give you approval to take the elective. You are still required to contact Kimberly Curtis to actually schedule the elective for the desired month.

Albany: The student is responsible for making “all” arrangements for this elective. Please make arrangements by contacting the following offices. Please contact Malisa Bradshaw at (229) 312-5133

Students must arrange for their own housing, but may contact the AHEC Preceptor Coordinator to see if housing is available.

REMINDER: After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.
**Columbus:** The student is responsible for making “all” arrangements for this elective. Please make arrangements by contacting the following offices. Note: you are required to contact both offices:

- Glenda Driskell, Perinatal Administrator, 706-571-1692 for approval to take the elective.
- Linda Whitley: (706) 571-1402 or M.A. Dowdell (706) 571-1430 to take care of all required documentation for approval to start the elective and to make housing arrangements if needed.

**REMINDER:** After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

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**PEDS 5002 Off-Campus Special Elective**

**Location:** Off Campus  
**Enrollment:** Max: 8  
**Prerequisites:** PEDS 5000  
**Duration:** One or Two Months  
**Months Offered:** July through June

**Goals:**  
To provide the student with experience in pediatrics in an off-campus setting through prior arrangement between the student and an off-campus pediatrician. The setting may be either inpatient or ambulatory based.

**Objectives:**
- At the end of this elective, the student will demonstrate:
  - Pediatric history-taking skills at the level of a beginning PGY-1 resident (2.2)
  - Pediatric physical exam skills at the level of a beginning PGY-1 resident (2.3)
  - Pediatric clinical problem solving skills at the level of a beginning PGY-1 resident (2.5, 2.7)
  - Increased pediatric fund of knowledge in the content area covered by his/her elective experience (1.3, 1.4, 1.5)

**Activities:**  
Learning activities will be arranged by the responsible preceptor through discussion with the student. They will be appropriate to meet the educational objectives above.

- Lecture Hrs: 5  
- Clinic Hrs: 30  
- Lab Hrs: 5  
- Seminar Hrs:  
- Small Group: 5  
- Other:

**Assessment:**  
The student will be assessed by his/her supervising preceptor using the M3/M4 Student Assessment Form.

**Unique Characteristics:**  
The student is responsible for making “all” arrangements for this elective – to include any required documentation from the student, and housing arrangements if needed.

**REMINDER:** After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

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**PEDS 5004 Off-Campus Preceptorship**

**Location:** Off Campus  
**Enrollment:** Max: 8  
**Prerequisites:** Phase 2  
**Duration:** One or Two Months  
**Months Offered:** July through June

**Goals:**  
To help the student develop the pediatric clinical skills necessary to be successful during his/her clinical clerkships and Phase 3 electives.

**Objectives:**
- At the end of the elective, the student will be able to:
  - Obtain a complete and accurate pediatric history and physical examination (2.2, 2.3)
  - Present a focused and comprehensive evaluation of a pediatric patient in a clear and concise manner (4.3)
  - Document in writing a focused and comprehensive evaluation of a pediatric patient in a clear and concise manner (4.3)
  - Demonstrate increased pediatric fund of knowledge in common issues seen in ambulatory pediatrics (1.3, 1.4, 1.5)

**Activities:**  
Learning activities will be arranged by the responsible preceptor through discussion with the student. They will be appropriate to meet the educational objectives above.

- Lecture Hrs: 5  
- Clinic Hrs: 30  
- Lab Hrs:  
- Seminar Hrs:  
- Small Group: 5  
- Other:

**Assessment:**  
The student will be assessed by his/her supervising preceptor using the M3/M4 Student Assessment Form.

**Unique Characteristics:**  
The student is responsible for making “all” arrangements for this elective – to include any required documentation from the student, and housing arrangements if needed.

**REMINDER:** After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

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**PEDS 5005 Pediatric Cardiology**

**Location:** GRU Hospital and Clinics  
**Enrollment:** Max: 2  
**Prerequisites:** PEDS 5000  
**Duration:** One Month  
**Months Offered:** July through June

**Goals:**  
To become proficient at performing a cardiovascular history and physical exam on pediatric patients, such that by the end of the rotation the student will be able to function at the level of pediatric intern.

**Objectives:**
- At the end of the elective, the student will:
  - Identify common cardiovascular disorders seen
in pediatrics (1.2, 1.3, 1.4, 2.5)
• Use history and physical exam to discern an innocent from a benign heart murmur. (2.2, 2.3)
• Describe the approach to diagnosing and treating the cyanotic newborn.
• Know the common diagnostic tools used in pediatric cardiology including EKG, chest X-ray, echo, and cardiac catheterization, and will be proficient at basic EKG reading. (2.6)
• Describe the physiology (1.1, 1.2), presentation, natural history, and treatment of the common acquired and congenital heart diseases seen in pediatrics, including the recognition and treatment of congestive heart failure. (1.5, 2.7)
• Evaluate pediatric syncope with an emphasis on recognizing potentially life threatening conditions. (1.4, 2.5)
• Understand the basic physiology of common pediatric cardiac surgical procedures, cardiopulmonary bypass, and the postoperative care of pediatric cardiac surgery patients. (1.2, 2.7)

Activities:
Learning activities will be arranged by the responsible preceptor through discussion with the student. They will be appropriate to meet the educational objectives above.

• Daily rounds begin in the PICU at 7:30 AM and then proceed to the floor and NICU. Students will have rounded on their patients prior to this time.
• Clinic runs from 9AM to about noon every day. Students perform the initial clinic evaluation including reading the EKG and then present to the attending.
• Opportunities arise almost daily for participating in cardiac catheterization, intraoperative transesophageal echo, and postoperative care. Observation of at least one surgical case is expected.
• Consults are generally seen in the early afternoon and then presented to the attending.
• Cardiac catheterization conference occurs every Monday from 3-4:30 PM. On the first Thursday of every month, a journal club is held with the PICU doctors at 7:30 AM. Rounds will occur at 7AM on those days.
• Informal teaching on rounds and in clinic occurs daily. Formal lectures will be given throughout the rotation.
• The student is expected to give a 10-20 minute presentation on a pediatric cardiology topic of their choice at the end of the rotation.

Lecture Hrs: 4  Clinic Hrs: 30  Lab Hrs: 0  Seminar Hrs: 2  Small Group: 0  Other: 0

Assessment:
The student will be assessed by his/her supervising preceptor using the M3/M4 Student Assessment Form. Emphasis is placed on:

• History and physical exam skills (we expect improvement during the rotation)
• Pediatric cardiology medical knowledge (especially understanding your patient’s disease, surgery, medicines)
• Communication skills with patients, families, and with other doctors. Included in this are oral presentation skills.
• Professionalism
• The ability to work well in a team environment with doctors, nurses, echosonographers, and other medical personnel

PEDS 5006 Allergy and Clinical Immunology
Location: GRU Hospital and Clinics
Enrollment: Max: 1
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: July through June

Goals:
To provide the student with experience in pediatric allergy and immunology primarily in an outpatient setting.

Objectives:
At the end of the elective, the student will demonstrate:
• Pediatric Allergy-Immunology history-taking skills at the level of a beginning PGY-2 resident (2.2)
• Pediatric-Allergy-Immunology physical exam skills at the level of a beginning PGY-2 resident (2.3)
• Pediatric Allergy-Immunology problem solving skills at the level of a beginning PGY-2 resident
• Increased pediatric fund of knowledge in the area of Pediatric Allergy-Immunology as covered by his/her elective experience (1.3, 1.4)

Activities:
Learning activities will be arranged by the Pediatric Allergy-Immunology faculty (Drs. Dolen and Wray) through discussion with the student. Activities will include seeing pediatric patients in the pediatric allergy-immunology clinic and on the pediatric ward under the direct supervision of the faculty.

Lecture Hrs: 4  Clinic Hrs: 30  Lab Hrs: 0  Seminar Hrs: 2  Small Group: 0  Other: 0

Assessment:
The student will be assessed by his/her supervising preceptor using the M3/M4 Student Assessment Form following an oral presentation on a selected topic in allergy and immunology and a written examination.

PEDS 5007 Pediatric Research
Location: GRU Hospital and Clinics or Off-Campus
Enrollment: Max: 8
Prerequisites: None
Duration: One or Two Months
Months Offered: July through June

Goals:
To enable the student to participate in research experience in selected areas of pediatrics through special arrangement with a member of the pediatric faculty.

Objectives:
At the end of this elective, the student will be able to demonstrate competence in the basic principles involved in the design and conduct of a research project, including:
- Define a research question and hypothesis (3.3)
- Develop a study design to answer the research question (3.3)
- Write a research protocol (3.3)
- Conduct and/or perform research (3.3)
- Analyze data (3.3)
- Interpret results (3.3)

Activities:
Learning activities and expectations will be arranged by the responsible faculty member through discussion with the student and put into writing. They will be appropriate to meet the educational objectives above.

Lecture Hrs: 5  Clinic Hrs:
Lab Hrs: 35  Seminar Hrs:
Small Group:  Other:

Assessment:
The student will be assessed by his/her supervising faculty member using relevant sections of the M3/M4 Student Assessment Form.

**PEDS 5009 Pediatric Substitute Internship (GRU or SE campus)**

**Locations:**
- Augusta - GRU Children's Hospital
- *SE Campus – Savannah – MHUMC
  - * (SEA form required for SE Campus)

**Enrollment:**
- Augusta Max: 3 Jul-Sept & Apr-Jun
  - (4 from Oct through Mar);
- Savannah Max: 1 (when available)

**Prerequisites:**
Phase 3 Core Curriculum

**Duration:**
One or Two Months

**Months Offered:**
July through June

**Unique Characteristics of the Elective:**
When signing up for this elective at MCG, please specify General, Hospitalist, or Sub-Specialty Service.

MCG-General Inpatient Service: (2 slots during October-March electives). Students will care for patients with acute and chronic medical conditions requiring inpatient management as well as some sub-specialty patients.

MCG-Hospitalist Service: Students will care for patients with acute and chronic medical conditions requiring inpatient management as well as Pulmonology and surgical patients.

MCG Sub-Specialty Service: 1 student per month (H/O, Nephrology, and Cardiology)
Students will care for patients with childhood cancer and sickle cell disease, acute and chronic renal diseases, and acquired and congenital heart disease

**Goals:**
To help students develop the skills necessary for their first year of residency training.

Objectives:
At the end of the elective, the student should have developed the following skills:
- Obtain a complete and accurate pediatric history and physical examination (2.2, 2.3)
- Make an appropriate clinical assessment about a newly hospitalized pediatric patient based upon the data the student has gathered (2.5)
- Develop an appropriate plan for treatment and management of a newly admitted pediatric patient based upon published guidelines in the literature (2.7, 3.4)
- Accurately and efficiently document in writing his/her focused and comprehensive evaluation of each newly admitted pediatric patient (4.3)
- Accurately document in writing the daily progress of his/her patients (4.3)
- Transfer patient care with accurate and efficient handovers between Day Team and Night Team (4.3)
- Educate other members of his/her ward team on learning issues identified on teaching rounds (6.1)
- Communicate effectively with all the patients and families (4.1, 4.2, 4.6)
- Communicate effectively with his/her ward team, nurses, staff, and referring physicians (4.2)
- Assume greater responsibility for the care of his/her patients while ensuring appropriate supervision by his/her resident and attending physicians (6.1)

Activities:
Students will function in the role of a first year pediatric resident. The upper-level pediatric resident on the team is responsible for directly supervising and writing daily notes on the senior student's patients. Activities will include:
- Completion of web-based portfolio
- Completion of a checklist which will be provided at the beginning of the rotation. Supervising physician will observe the skills below, give feedback and sign checklist card:
  1. admission history
  2. admission and medication orders
  3. discharge summaries
  4. written notes
  5. portions of the physical exam
- Checklist & Reviewed Portfolio must be submitted before the final grade can be released.

Other Activities are as follows:
- Evaluate newly admitted pediatric inpatients under the supervision of a pediatric resident and/or attending
- Develop evaluation and management plans on all patients for whom they are responsible including writing admission and daily orders to be co-signed by a licensed physician
• Provide daily written documentation on the progress of all their patients. The expectation is for the student to follow 2-3 patients or 2/3 the number of patients the intern is following depending on the census and complexity of the patients.
• Make oral presentations on rounds to the attending and other team members
• Attend all required conferences related to their service
• Perform all written and oral communication required keeping referring physicians informed as to the status of their referred patients.
• Handover patients between Day Team and Night Team
• Maintain effective communication with parents/patients.
• Fulfill administrative responsibilities such as dictating discharge summaries, arranging follow-up appointments, etc.
• Research assigned topics and educate the ward team on clinical topics relevant to their patients.
• Work four (4) consecutive nights with the Night Team.
• Present at Morning Report.

Lecture Hrs: 5 Clinic Hrs: 40
Lab Hrs: Seminar Hrs:
Small Group: 10 Other:

Assessment:
The student will be assessed by his/her supervising ward attending and resident using the M3/M4 Student Assessment Form.

Work Hours:
Students will be subject to the same rules as interns. At a minimum the student is expected to be present from morning handover to evening handover (6am to 6pm). Additional hours may be required to complete patient care duties, but should not exceed 80 hours per week. The student should not work more than 16 continuous hours. Students should expect to have an average of one day off in seven with the expectation of working one full weekend. Attempts will be made by the upper level resident to accommodate requests for time off.
• Weekends: Students are required to work 3 weekend days.
• Holidays: Holidays are treated as weekends.
• Nights: Students are required to work 4 nights on Night Team.

Unique Characteristics:
Savannah: The student is responsible for making “all” arrangements for this elective – to include initial application on VSAS, any required documentation from the student, and housing arrangements if needed. Arrangements should be made by contacting the MHUMC Medical Student Coordinator, Ms. Leigh Kirkland at 912-350-8076.

Please do not assume housing is available – housing is not automatically provided for senior electives. If you need housing you are responsible for making those arrangements. You can contact Deborah Peterson, Property Manager at (912)355-3722 and she may (or may not) be able to help. You should call Ms. Peterson as soon as you have gotten approval to elective from Ms. Kirkland.

REMINDER: After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

PEDS 5011 Pediatric Gastroenterology
Location: GRU Hospital and Clinics/CMC
Enrollment: Max: 1
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: July through June

Goals:
To provide the student with experience in pediatric gastroenterology. The setting will be a combination of inpatient and ambulatory.

Objectives:
At the end of this elective, the student will demonstrate:
• Pediatric history-taking skills at the level of a beginning PGY-1 resident (2.2)
• Pediatric physical exam skills at the level of a beginning PGY-1 resident (2.3)
• Pediatric clinical problem solving skills at the level of a beginning PGY-1 resident (2.5)
• Increased pediatric fund of knowledge in gastroenterology. (1.3, 1.4)

Activities:
Students will function in the role of a first year pediatric resident. Activities will include the following:
• Evaluate outpatients under the supervision of the attending in 3-7 half day clinics weekly
• Evaluate inpatient consults or newly admitted patients under the supervision of the attending
• Observe GI procedures performed by attending throughout the month.
• Research assigned topics and complete directed reading covering pediatric gastroenterology, hepatology and nutrition

Lecture Hrs: 3 Clinic Hrs: 25
Lab Hrs:  Seminar Hrs:
Small Group: 8 Other: 10

Assessment:
The student will be assessed by his/her supervising preceptor using the M3/M4 Student Assessment Form.

PEDS 5013 Pediatric Infectious Disease
Location: GRU Hospital and Clinics
Enrollment: Max: 1 student
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: July- November; January-May

Goals:
Gain experience in evaluating a child with a complex infectious disease and completing a pediatric consult to
assist in the diagnosis and management of that child. To learn more about HIV exposure and disease in children.

Objectives:
- Increase skills by taking an exposure history, performing a pertinent exam and interpreting laboratory and radiology studies leading to a diagnosis for children with presumed infectious diseases. (2.2, 2.3, 2.6)
- Be able to describe risk factors and symptoms that would prompt testing for HIV infection in neonates, children, and to a lesser extent adolescents. (1.2, 1.6, 1.7)
- Develop familiarity with several resources for information on common anti-infective agents, including resistance patterns of some bacteria and viruses. (1.6)
- Identify specific tests available for the diagnosis of various infectious diseases. (2.6)
- Identify reliable sources of up-to-date information on childhood vaccines. (1.5, 1.7)

Activities:
- Consults on pediatric in-patients, NICU, PICU, Nursery and Wards
- Outpatient clinics in Peds ID (two ½ days per week).
- Microbiology Lab (two ½ days/rotation).
- Round with Peds ID attending regularly.
- Small group/lecture (1 – 2 hours per week).
- Reading – Patient specific as well as to meet objectives (above).
- Student to do a 20 – 30 minute presentation on an ID topic of choice at end of rotation; alternatively, may be asked to present a patient at the ID conference held 2x/month at GRU (required).
- May be asked to be available by telephone and possibly come to the hospital one of the 3-weekends (not the last weekend of the rotation);

Optional Activities:
There may be opportunity to attend a satellite clinic in Albany Georgia when available (student must have travel request approved by Curriculum Office) Epidemiology meetings with Dr. Mani ID Conference (when held at MCG – organized by Adult ID)

Lecture Hrs: (see small group) Clinic Hrs: 30
Lab Hrs: 2 Seminar Hrs:
Small Group: 4 – 8 Other:

Assessment:
- End of rotation M3/M4 Student Assessment Form.
- Quality of the presentation done at end of rotation.
- Other assessments: verbal quiz regarding aspects of objectives.

Unique Characteristics of Elective:

Peds ID is almost completely a consultation specialty. You get to “advise” a variety of other pediatric caregivers. Students who initially enroll in the Peds ID elective should routinely give a 4-week notice should they decide to drop the elective in order to give other interested students a chance to enroll in the elective.

*Please give a 4-week notice if canceling this elective. Students interested in a research elective month in Peds ID should get written permission from Dr. Dennis Murray, Dr. Chitra Mani or Dr. Chris White and register for PED5007.

**Peds 5017 Pediatric Hematology/Oncology**

Locations:
- Augusta – GRU Children’s Medical Center
- SE – Savannah – Memorial Medical Center (when available)

Enrollment: Max: 1 at each location
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: July through June

Goals:
Familiarize student with the needs of chronically ill oncology and hematology patients and multidisciplinary approach needed to care for them.

Objectives:
- Obtain comprehensive history and physical on new patients and consults (2.2, 2.3)
- Complete history and physical on established patients (2.2, 2.3)
- Develop the proper differential diagnosis (2.5)
- Present a focused and comprehensive evaluation of patients in a clear and concise manner (4.3)
- Document in writing the history and physical examination performed on patients (4.3)

Activities (Augusta):
- Student will have the opportunity for inpatient and outpatient experience as arranged between the student and the Dr. Colleen McDonough
- During the inpatient rotation the student will be assigned specific patients to follow-up and function as an intern (This is discouraged when there is also a Sub-I on Subspecialty Team)
- Student will be requested to prepare and present specific topics of interest
- Review of peripheral blood smears and bone marrows will be arranged with the attending physician and pathology residents
- Independent study expected

Activities (Savannah):
- Following and managing patients admitted to the Pediatric Hem/Onc Service
- Active participation in daily ward and teaching rounds
- Present short (15-20 minute) topic/case study related to interesting case in Pediatric Hem/Onc.
- The student will function as an integrated member of the Pediatric Hematology/Oncology
team in the care of patients hospitalized for evaluation and treatment, as well as routine and acute “walk-in” patients in the Outpatient Department. Emphasis will be placed on general knowledge of the clinical approach to children with anemia and other red cell disorders, neutropenia, platelet and coagulation disorders, and pancytopenia.

- General knowledge of childhood cancer including incidence, prognosis, and integrated multidisciplinary care will be provided.

Lecture Hrs: 4  Clinic Hrs: 40  
Lab Hrs: 1  Seminar Hrs: 1  
Small Group: 0  Other: 0  

Assessment:
- Clinical performance evaluation by attending physician to assess the following skills
  - History and physical examination
  - Case presentation
  - Medical documentation
  - Professionalism
- Attending physician and second year resident will give feedback about student’s performance at least once weekly
- Evaluate ability to perform comprehensive differential diagnoses
- Evaluate written communication in patient’s chart

Unique Characteristics:

**Augusta:** This elective may involve both outpatient and inpatient care. The student will learn how to formulate a diagnostic workup. A treatment plan will be developed and the multidisciplinary approach to patient management will be emphasized. The student will attend outpatient clinics each day and evaluate both new and established patients. The Hematology/Oncology clinics are Monday through Friday. Blood, spinal fluid and bone marrow smears will be reviewed. A research project can be a part of this elective if the student so desires.

**Savannah:** The student is responsible for making “all” arrangements for this elective – to include initial application on VSAS, any required documentation from the student, and housing arrangements if needed. Arrangements should be made by contacting the MHUMC Medical Student Coordinator, Ms. Leigh Kirkland at 912-350-8076.

Please do not assume housing is available – housing is not automatically provided for senior electives. If you need housing you are responsible for making those arrangements. You can contact Deborah Peterson, Property Manager at (912)355-3722 and she may (or may not) be able to help. You should call Ms. Peterson as soon as you have gotten approval to elective from Ms. Kirkland.

**REMINDER:** After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

**PEDS 5018 Pediatric Critical Care**

**Locations:**
- Augusta - CMC Pediatric Intensive Care Unit
- SE – Savannah – MHUMC

**Enrollment:**
- Augusta - Max: 2 (Dr. Mehta)
- Savannah – Max 1 (limited availability)

**Prerequisites:**
- Augusta - Phase 3 Core Curriculum
- Savannah – Phase 3 Core Curriculum

**Duration:** One Month

**Months Offered:** July through June

**Goals:**
To assist in the care of critically ill children and develop a multiple organ systems approach for evaluation and treatment.

**Objectives:**
Participants will:
- Present complex pediatric patients using multiple organ systems approach. (4.3)
- Treat complex pediatric patients using a multiple organ systems approach. (2.7, 4.3)
- Recognize neurologic failure, respiratory failure, and hemodynamic dysfunction in children. (1.2, 1.3)
- Demonstrate basic knowledge and skills in pediatric resuscitation (1.5, 2.4, 2.7)
- Learn basic ventilator management (2.7)
- Expand knowledge of fluid and electrolyte disorders (1.2, 1.3)
- Gain experience in dealing with the families of acutely ill children. (2.1, 4.1, 4.2)

**Activities:**
- Evaluate newly admitted patients to the pediatric intensive care unit under the supervision of a pediatric resident and/or attending.
- Develop multiple organ systems-based evaluation and management plans on all patients for whom they are responsible.
- Provide daily organ systems-based written documentation on the progress of all their patients.
- Make oral presentations on rounds to the attending and other team members.
- Attend all required conferences related to their service.
- Perform all written and oral communication required to keep referring physicians informed as to their status of their referred patients.
- Independent study
- Prepare a 15 to 20 minute presentation to be given the final week of the rotation to housestaff on the PICU rotation and pediatric critical care faculty. The topic is of the student’s choosing and must be decided by the second week.
- Patient care rounds (2 hours per day)
- Pediatric Critical Care Course (2 hours of lecture per week) (time permitted)
• Work 4 consecutive nights on the Night Team – dates to be determined with team at beginning of rotation.
• Students are encouraged to participate in the written assessment exercise offered to the housestaff at the end of the rotation.

Lecture Hrs: 2 Clinic Hrs: 35
Lab Hrs: 0 Seminar Hrs: 0
Small Group: 14 Other: 0

Assessment:
Students will be assessed on:
• Patient presentations during rounds
• Rapport with housestaff and nursing staff
• Participation in clinical activities
• Quality of the topic presentation given to the housestaff and faculty
• Written evaluation will be on the M3/M4 Student Assessment form.

Work Hours:
Students will be subject to the same rules as interns. At a minimum the student is expected to work from morning handover until evening handover. Additional hours may be required to complete patient care duties, but should not exceed 80 hours per week. Students should expect to have an average of one day off in seven with the expectation of working 2 weekend days. Attempts will be made by the upper level resident to accommodate requests for time off. Holidays are treated as weekends.

Unique Characteristics:
Savannah: There is limited availability for this elective, so please contact Ms. Leigh Kirkland - the MHUMC Medical Student Coordinator at 912-350-8076. Students must apply for this rotation on VSAS.

The student is responsible for making “all” arrangements for this elective – to include any required documentation from the student, and housing arrangements if needed. Please do not assume housing is available – housing is not automatically provided for senior electives. If you need housing you are responsible for making those arrangements. You can contact Deborah Peterson, Property Manager at (912)355-3722 and she may (or may not) be able to help. You should call Ms. Peterson as soon as you have gotten approval to elective from Ms. Kirkland.

REMINDER: After all arrangements are confirmed – you still need to have a “SEA Form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

PEDS 5019 Medical Genetics
Location: GRU Hospital and Clinics
Enrollment: Max: 1
Prerequisites: None
Duration: One Month
Months Offered: August – October, December – February, and April – June

Goals:
Students will expand their knowledge of medical genetics, regarding inheritance of traits, genetic basis of diseases and birth defects, and how genetic disorders are diagnosed and managed

Objectives:
At the end of the elective, students will be able to:
• Obtain a complete genetic family history (2.2)
• Perform a basic dysmorphology examination of patients (2.3)
• Access on-line information for diagnosing genetic disorders(3.3)
• Select appropriate genetic tests to evaluate patients with various clinical problems (2.6)
• Identify patients who should have genetic evaluations (1.3)
• Recognize the 10 most common multiple congenital anomaly syndromes (1.3)
• Explain mechanisms of inheritance and recurrence risks to patients/parents (1.1, 1.2)

Activities:
Teaching activities with time commitment per week
• Participate in weekly Pre-Clinic Case Review conference
• Participate in patient evaluations in Genetics Clinic, Genetics Telemedicine Clinic, Craniofacial Clinic, Cleft Lip and Palate Clinic, Hemophilia Clinic
• Participation in off-campus Genetic Outreach Clinics is optional
• Perform In-Patient Consultations
• Hands-on sessions in the Cytogenetics Laboratory, learning about standard cytogenetic techniques and molecular cytogenetic techniques, with the opportunity to test and analyze one’s own karyotype.
• On-line problem case exercises
• Educational videotapes on the dysmorphology exam and common syndromes
• Independent study

Assessment:
• Clinical performance evaluation by faculty to assess the following skills
  • Patient encounter - history and physical examination
  • Pedigree construction and analysis
  • Case presentation
• Review of problem case exercise
• M3/M4 Student Assessment Form

PEDS 5020 Pediatric Endocrinology
Location: GRU Hospital and Clinics
Enrollment: Max: 1
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: September through November and January through March
**Goals:**
- Familiarize the student with evaluating variations in pre-pubertal and pubertal growth patterns;
- Formulate a differential diagnosis and diagnostic approach to congenital and acquired forms of pediatric and adolescent endocrine conditions;
- Evaluate the success of medical and/or surgical intervention;
- Experience how psychosocial issues impact medical care; (4.3)
- Discuss how tertiary care complements the role of primary care. (6.1)

**Objectives:**
- Perform and present a comprehensive history and physical examination on a patient with an established endocrine condition or a chief complaint suggestive of an endocrine condition; (2.2, 2.3)
- Indentify & interpret laboratory evaluation of an endo pt; (2.6)
- Interpret basic endocrine tests and formulate a treatment plan. (2.6, 2.7)

**Activities:**
Teaching Activities:
- One to two completed evaluations per clinic (approximately 7-10/wk)
- Review laboratory tests at the end of each week
- Independent study

Each week the student and mentor(s) will decide upon a topic which will require a brief presentation by the student and discussion with the mentor.

**Lecture Hrs:** 0  **Clinical Hrs:** 20
**Small Group:** 5  **Seminar Hrs:** 5  **Other:** 10

**Assessment:**
Evaluation will be based on:
- Student’s presentation (oral and written) of their history and physical examinations;
- Ability to apply basic endocrine physiology or other basic sciences to the patient’s condition;
- Formulate an evaluation and treatment plan; Professionalism

This elective is designed to familiarize the student with normal variations in pre-pubertal and pubertal growth patterns, the diagnostic approach to pediatric endocrine conditions and the ongoing management of the conditions. The weekly Pediatric Diabetes Clinics offer the student the opportunity to become familiar with the multidisciplinary approach to a chronic condition. In addition, there will be a discussion of a chosen topic each week. Clinical research projects can also be arranged (Dr. Houk)

**PEDS 5022 Pediatric Pulmonology**

**Location:**  GRU Hospital and Clinics
**Enrollment:**  Max: 1
**Prerequisites:**  PEDS 5000
**Duration:**  One Month
**Months Offered:** July through June

**Objectives:**
- Diagnose and classify severity of asthma (2.5)
- Outline an initial treatment plan for a new asthma patient and adjust the plan for a returning patient (2.7)
- Recognize the common presenting signs and symptoms of cystic fibrosis and provide CF management in the context of general pediatric care (1.3, 1.5, 2.7)
- Interpret common pulmonary findings on chest x-rays (2.6)
- Recognize the patterns of pulmonary findings in chronic aspiration, GE reflux, neuromuscular diseases (1.3, 2.5)
- Recognize the signs and symptoms of upper airway obstruction and obstructive sleep apnea/hypopnea (1.3)
- Interpret routine pulmonary function tests. (2.6)

**Activities:**
- The student will attend all pediatric pulmonology clinics
- The student will participate in inpatient consults and weekly multidisciplinary rounds with the hospitalist team
- The student will attend conferences and lectures as pertinent to pulmonology (morning report, grand rounds, noon conference); a specific calendar is provided at the beginning of the rotation
- The student will complete a portfolio provided to them at the beginning of the rotation
- The student will present a short educational session at the end of the rotation

**Lecture Hrs:** 3  **Clinical Hrs:** 30
**Lab Hrs:** 8  **Seminar Hrs:** 5  **Other:**

**Assessment:**
Ongoing feedback regarding performance, review of completed portfolio and written exam at the end of the period.

A four week rotation in Pediatric Pulmonology will include primarily outpatient management regarding patients with cystic fibrosis, bronchopulmonary dysplasia, asthma, recurrent pneumonias and other common and uncommon respiratory disorders. Didactic sessions are conducted weekly with a reading list provided at the beginning of the course.

**PEDS 5023 Adolescent Medicine Elective**

**Location:**  GRU Hospital and Clinics
**Enrollment:**  Max: 1
**Prerequisites:**  PEDS 5000
**Duration:**  One Month
Months Offered: July through June

Goals:
To develop the skills necessary to effectively evaluate and manage sick and well adolescents presenting for care in an ambulatory setting. This elective provides a concentrated student exposure to adolescent medicine in the primary care (outpatient) environment. The spectrum of care can be expected to include acute and chronic illnesses, gynecologic care, sports medicine, psychosocial and family disorders, growth problems, contraceptive counseling, issues related to adolescent sexuality, and substance abuse disorders. The instructional focus will concentrate upon accurate, extended history taking and communication skills needed to care for this unique patient population. Recognition and appreciation of the common maladies of adolescence will be taught and their treatments will be demonstrated. Ample time is allowed for the student to review the current literature on a medical topic of interest and write a brief review article during the month.

Objectives:
At the end of this 4-week rotation, the student should be able to:

- Demonstrate effective communication skills in collecting information from patients and parents, effectively utilizing the information and negotiating a management plan.
- Demonstrate ability to complete a health screening database including history, physical, and laboratory components on adolescents of varying ages presenting for routine check-ups in the adolescent clinic. (i.e. pubertal growth, menstrual history, diet & exercise patterns, substance use, sexuality)
- Become familiar with the prevalence of alcohol and drug problems in teens and their families, and practice interviewing skills specific to substance abuse assessment.
- Describe the sequence of events of normal puberty for males and females and recognize abnormal puberty
- Describe the normal developmental tasks of adolescents as they progress through early, middle and late adolescence.
- Outline a rational diagnostic and therapeutic approach for adolescent women presenting with several common gynecologic complaints.
  - Primary amenorrhea
  - Secondary amenorrhea
  - Dysfunctional uterine bleeding
  - Dysmenorrhea
  - Vaginal discharge
- Demonstrate ability to perform a male genital examination on adolescent men presenting both for routine preventive care and with symptomatic complaints.
- Demonstrate knowledgeable and compassionate counseling of adolescents regarding HIV and other STD risk reduction.
- Demonstrate knowledgeable and compassionate counseling of male and female sexually active adolescents regarding contraception.
- Discuss legal and ethical issues affecting the confidential care of adolescents.
- Perform a preparticipation sports evaluation.
- Describe the basic risk factors for and assessment of adolescent suicide.
- Diagnose and treat a patient with acne.

Activities:
During this 4-week rotation, the student will be expected to:

- Complete all required readings
- Participate in the clinical care of adolescents in the GRU adolescent clinic on all scheduled days.
- Write a brief review article on a topic pertinent to adolescent health care.

Lecture Hrs: 2  Clinic Hrs: 20
Lab Hrs:  Seminar Hrs:
Small Group: 3  Other: 15
Assessment:
The student will be assessed by his/her supervising preceptor using the GRU Medical Student Clinical Performance Evaluation Form. Areas to be evaluated include:
- History and Physical Examination Skills
- Medical Knowledge
- Practice-Based Learning and Improvement
- Professionalism
- Interpersonal and Communication Skills
- Systems-Based Learning

PEDS 5025 Developmental Pediatrics
Location:  GRU Hospitals and Clinics
Enrollment:  Max: 1
Prerequisites:  None
Duration:  One Month
Months Offered: All

Goals:
- Identify developmental milestones.
- Demonstrate courtesy when treating patients and their parents
- Identify the diagnosis and management of attention deficit hyperactivity disorder
- Identify the diagnosis and management of developmental delay and cognitive delay
- Identify the diagnosis and management of autism
- Identify the diagnosis and management of cerebral palsy

Objectives:
- Appreciate that development occurs in a predictable pattern
- List the streams of development
- The doctor will address the patient directly
- List the types of ADHD
- Assess the symptoms of ADHD through history taking with parents
- Assess milestones through history taking
- Assess development through limited developmental testing
- Initiate treatment of developmental delay
• Assess the symptoms of autism through history taking with parents
• Identify the treatment of autism
• List the diagnostic characteristics of cerebral palsy
• List the treatment of cerebral palsy

Activities:
Students will work daily with Dr. Caroline DiBattisto in the Developmental-Behavioral Pediatrics Clinic caring for children with chronic medical, developmental and neuromuscular conditions. Students will have weekly readings on developmental issues. Observation at pediatric rehabilitation services (speech, occupational, and physical therapy) and the GRU Childcare Center will also be available during the rotation.

Lecture Hrs: Clinic Hrs: 40
Lab Hrs: Seminar Hrs: 0
Small Group: Other: 0

Assessment:
Observation of skills in the clinical setting.

PEDS 5035 Pediatric Assistantship at Special Needs Summer Camp
Location: Camp Twin Lakes, Rutledge, GA
Enrollment: Max: 1
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: June and July

Goals:
This unique elective allows the student to participate as part of the medical team each week in a camp setting with various medical conditions such as brain injury, chronic renal disease/solid organ transplant, hereditary bleeding disorders, cancer, asthma, emotional abuse, and congenital neuromuscular disorders.

Objectives:
The student will:
• Learn and assist in assessing complex medical problems arising in childhood campers with chronic conditions.
• Identify and assess day to day camp-related medical issues (scratches, bug bites, homesickness, etc).
• Appreciate the educational and medicinal benefits of the camp environment/activities for children with chronic conditions.
• Identify high risk issues for these children in the camp environment.
• Familiarize oneself with emergency medical equipment and its utilization at camp.

Activities:
• Supervised patient evaluations with medical team members in the medical lodge and possibly during camp activities.
• Observation, mentorship and supervised participation in care and maintenance of the campers.
• Observe and occasionally participate in camp activities with campers.

• Mentorship and small group sessions with individual medical team members during each camp

Lecture Hrs: Clinic Hrs: 40
Lab Hrs: Seminar Hrs: 0
Small Group: Other: 0

Assessment:
Feedback from individual medical teams will synthesize into Medical Student Clinical Performance Evaluation form.

Unique Characteristics:
Arrangements should be made by contacting Dr. Dan Mathews, Director of Camping Services – Camp Twin Lakes by calling 706-557-9070 ext. 403. E-mail address is dan@camptwinlakes.org. Address: Camp Twin Lakes, 1391 Keensheefoonee Road, Rutledge Georgia 30663.

REMINDER: After all arrangements are confirmed – you still need to have a “SEA form” signed by Kimberly Curtis and submit it to the Curriculum Office in order to officially add this elective to your schedule.

PEDS 5036 Pediatric Sub-Specialties
Location: GRU – Children’s Medical Center
Enrollment: Max: 1
Prerequisites: PEDS 5000
Duration: One Month
Months Offered: July through June

Goals:
Gain experience with the acute and chronic diseases associated with two different pediatric subspecialties.

Objectives:
At the end of the elective, the student should be able to do the following:
• Develop an appropriate plan for treatment and management of his/her patient based upon published guidelines in the literature.
• Orally present each patient to the supervising attending
• Accurately and efficiently document in writing his/her focused and comprehensive evaluation of each pediatric patient consult.
• Educate members of the consulting team on subspecialty issues identified during the consultation process.
• Communicate effectively with his/her patient(s) families.
• Communicate effectively with his/her attending, nurses, staff, and referring physicians.

Activities:
• Outpatient subspecialty clinics
• Consults on pediatric inpatient, NICU, PICU, Nursery and Wards.
• Read about specific patients and about relevant subspecialty topics.
• Attend conferences and lectures as pertinent to the subspecialty (morning report, grand rounds, noon conference)
• Perform written and oral communication required to keep referring physicians informed of the status of their referred patients.
• Other activities will be at the discretion of the supervising attendings, but may include small group/lectures, presentations, satellite clinics, and required reading.

Lecture Hrs: 5  Clinic Hrs: 40
Lab Hrs:  Seminar Hrs:
Small Group: 10  Other:

Assessment:
The student will be assessed by the supervising attendings using the GRU Medical Student clinical Performance Evaluation form and the final grade will be an average of the two. If a student meets requirements for one half of the rotation, but not the other the grade will be no higher than a C.

The student must have written permission from both supervising attendings before enrolling in the elective. The attendings and student will work together to determine the schedule for the elective and specific written expectations. The contact person for each subspecialty is listed below:

• Allergy-Immunology – Dr. Bill Dolen, 721-3531
• Gastroenterology – Dr. Vita Goei, 721-4724 Note: Cannot schedule if PED5011 is filled.
• Genetics – Dr. David Flannery, 721-2809. Note: Cannot schedule if PED5019 is filled.
• Infectious Disease – Dr. Dennis Murray, 721-4725. Note: Cannot schedule if PED5013 is filled.
• Nephrology – Dr. Luis Ortiz, 721-0177
• Pulmonology – Dr. Valera Hudson, 721-2635
• Rheumatology – Dr. Rita Jerath, 721-8950

Unique Characteristics:
This rotation will give the student an opportunity to work on two different subspecialty services. They may combine any two of the following pediatric subspecialties: Allergy-Immunology, Developmental Pediatrics, Gastroenterology, Genetics, Infectious Disease, Nephrology, Pulmonology, or Rheumatology.

The students will attend clinics with both subspecialties during the rotation, and may assist with consults for each service. The student will not be responsible for daily management of inpatients.

The student must have written permission from both supervising attendings before enrolling in the elective. The attendings and student will work together to determine the schedule for the elective and specific written expectations.

**PEDS 5037 Advanced Pediatrics**
Location: GRU
Enrollment: Max: 16 per session
Prerequisites: PEDS 5000, Pediatrics as Sponsoring Department
Duration: Two weeks plus longitudinal component and one day in spring

**Months Offered:** August (must attend first and fourth full weeks in August)

**Goal:**
Prepare students for a pediatric Sub-I and internship using the ACGME Core Competencies as a framework.

**Objectives:**

- **Patient Care:**
  - Recognize and initially manage respiratory distress, respiratory failure, and shock (2.5, 2.6, 2.7)
  - Describe indications for and correctly perform procedures (2.4)
  - Demonstrate clinical reasoning skills (2.5, 2.7)

- **Medical Knowledge:**
  - Discuss differential diagnosis and management of common conditions seen during internship (1.3, 1.5, 2.5)

- **Interpersonal and Communication Skills:**
  - Handover patient care to a colleague (4.3)
  - Write effective discharge summaries (4.3)
  - Discuss appropriate teaching strategies for particular situations (4.6)

- **Professionalism:**
  - Discuss lapses in professionalism or ethics and determine ways to address them (5.1, 5.4, 5.5)

- **Practice Based Learning and Improvement:**
  - Demonstrate components of effective feedback (3.1)
  - Develop goals to prepare for self-directed learning (3.1, 3.2)
  - Demonstrate skills in evidence-based practice (3.3)

- **Systems Based Practice:**
  - Design a performance improvement project (6.2)
  - Work collaboratively and effectively as a member of a team (6.1)

**Activities:**
The AP program will be comprised of a 4-week elective in August which will consist of required small group sessions during the 1st – 4th weeks and independent work during the 2nd – 3rd weeks.

Activities include small-group discussions, simulations, and individual projects. There are no direct patient care experiences. Activities will occur within the following units:

**Clinical Skills:**
- Lecture series on pediatric resuscitation
- Supervised time in Pediatric Simulation Lab performing Mock Codes, LPs, Intubation, CPR, defibrillation

**Clinical Reasoning:**
- Small group facilitated sessions about common acute pediatric problems that students and residents face caring for hospitalized patients
• Curriculum to address clinical reasoning

Communication:
• Small group facilitated sessions with guided peer-review of write-ups, oral presentations, problem lists, discharge summaries, teaching, feedback, and handovers

Evidence Based Practice:
• Small group facilitated sessions about how to review an article and basics of EBM
• Journal Clubs
• Review of evidence based practice in context of clinical cases

Goal-setting
• Small group session on goal-setting
• Individual Learning Plan with quarterly review of goals with an advisor

Performance Improvement:
• Small group sessions about performance improvement
• Personal Improvement Project

*Students are required to attend all sessions. There are no sessions during evenings or weekends.

Assessment:
• Review of goals.
• Attendance and participation in small group sessions
• Global evaluation of participation and performance during the block rotation

Lecture Hours: 4  Seminar Hours: 20
Lab Hours: 6  Small Group: 20
Clinic Hours: 0

PEDS 5038 Spirituality and Medicine
Location: GRU *does not count as on-campus
Enrollment: Max: 1
Prerequisites: None
Duration: One Month
Months Offered: September through June

Goals:
To help students evaluate and appreciate the published literature on the relationship of spirituality and medicine.

Objectives:
The student will:
1. Analyze published literature on a topic pertaining to the relationship of spirituality and medicine
2. Present or publish an original paper discussing a review of published literature on a topic relating spirituality and medicine

Activities:
The student will research in depth a topic of his/her choice and will prepare a paper for presentation/publication. Optionally, the student may participate in clinical rounds and other activities in the Department of Pastoral Care.

The experience will primarily be independent study and may be partially off campus. The student will meet regularly with Dr. Dolen and Dr. Flowers for discussion and evaluation of his/her progress.

Assessment:
Students will be evaluated using the M3/M4 Student Assessment Form. The evaluation will be based primarily on faculty observations by Dr. Dolen and Dr. Flowers during discussions, evaluations of progress, and final presentation of paper.

Lecture Hrs:  Clinic Hrs:  
Lab Hrs:  Seminar Hrs: 2
Small Group:  Other:

Primary Care Sports Medicine—see FMPC 5015

Pharmacology and Toxicology
(ALL COURSES IN THE PHARMACOLOGY AND TOXICOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

PHRM 5003 Tutorial Elective in Pharmacology
Location: GRU*NE Campus
*NE Campus locations for residential students assigned to the UGA/GRU Partnership

Enrollment: Minimum: 1  Maximum: 5
Prerequisites: Medical Course in Pharmacology
Duration: One or Two Months
Months Offered: June through May

Goals:
Expand knowledge and understanding of selected areas of pharmacology and therapeutics.

Assessment:
Students may elect to study in depth a specific area in Pharmacology and Toxicology under the guidance of one or more faculty members most familiar with that specific area. A list of faculty preceptors and subject areas are available in the Department Office (CB3530) for GRU. Arrangements to be made by the student with the member of the faculty involved in the tutorial program.

NE Campus locations and arrangements may be made by contacting Jeanette Bowman or Rachel McDaniel directly.

PHRM 5004 Research Elective in Pharmacology
Location: GRU
Enrollment: Minimum: 1  Maximum: 2 per faculty member
Prerequisites: Approval by faculty member with whom research will be done
Duration: One to Two Months
Months Offered: June through May

Goals:
Develop research skills on project of common interest with faculty.

Assessment:
Opportunity to participate in research programs being conducted by members of the faculty of the Department of Pharmacology and Toxicology. A list of faculty preceptors and projects is available in the office (CB-3530). Arrangements to be made by the students with a member of the faculty.

**PHRM 5011 Toxicology**

Location: GRU
Enrollment: Minimum: 2 Maximum: 6
Prerequisites: Medical Course in Pharmacology
Duration: One Month
Months Offered: August

Goals:
Expand knowledge and understanding of toxins’ actions and their clinical management.

Assessment:
Students will participate in discussion and review of several aspects of toxicology including heavy metals, gaseous poisons, industrial and agricultural chemicals, poisonous plants and venoms. Emphasis is on human toxicology and includes selected reports to be presented by enrollees. (Dr. R. W. Caldwell, Ext. 3383 and Wendy Fava, Ext. 3384)

**PHRM 5012 Clinical Pharmacology and Therapeutics**

Location: GRU
Enrollment: Minimum: 2 Maximum: 6
Prerequisites: Medical Course in Pharmacology
Duration: One Month
Months Offered: By Arrangement

Goals:
Better understanding of the actions and clinical uses of important classes or drugs and modes of drug delivery, allow students to reflect on and solve problems encountered with clinical therapeutics.

Assessment:
Interacting with a faculty of pharmacologists, clinical pharmacologists and pharmacists, students will study rational approaches to drug therapy. Readings, discussions, case histories and clinic visits will be utilized. An additional goal of this course is for students to understand the process for clinical development of new drugs. Therapy areas to be covered will depend upon interests of enrollees. (Dr. R. W. Caldwell, Ext. 3383 and Wendy Fava, Ext. 3384)

**Physiology**

(ALL COURSES IN THE PHYSIOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

**PSIO 5011 Research Elective in Physiology**

Location: GRU, Dept. of Physiology, Interdisciplinary Research Center Building, 3rd Floor, Medical College of Georgia
Enrollment: Minimum: 1 Maximum: 2 per faculty member
Prerequisites: Approval by Faculty Member with who research will be done
Duration: One to Two Months
Months Offered: By Arrangement
Goals:
To introduce medical students to physiological research.

Objectives:
- To learn how to do hypothesis-based research
- To learn research methods

Activities:
- Research laboratory methods
- Seminars
- Scientific presentations

Lecture Hrs: Lab Hours:
Small Group: Clinic Hrs:
Seminar Hrs: Other:

Assessment:
A successful activity would lead to a publication in a research journal.

**Psychiatry**

(ALL COURSES IN THE PSYCHIATRY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)

**PSRY 5002 Consultation Liaison Psychiatry**

Location: GRU Hospital
Enrollment: By Arrangement
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: July through June

Goals:
To provide the student doctor with the opportunity to learn directly about the medicine/psychiatry interface. This medical/psychiatric experience can be invaluable for those going into any specialty in medicine.

Objectives:
At the end of the elective, students will be able to:
- Exhibit a working knowledge of the ways in which medical illness and medications affect the mental and emotional life of patients
• Explore the impact of mental and emotional factors on the disease process and treatment of patients.

Activities:
• Consultation cases from various departments treating patients
• Review chart work
• Discuss cases during rounds with the C/L attending physicians

Lecture Hrs: 2  Clinic Hrs: 40
Lab Hrs: 0  Seminar Hrs: 0
Small Group: 0

Assessment:
Clinical performance evaluation by faculty to assess the following skills:
• Patient Care
  o Medical interviewing
  o Physical examination
  o Patient Care skills
• Medical knowledge
  o Practice-based learning and improvement
  o Professionalism
  o Interpersonal and communication skills
  o Systems-based learning

(Christian Lemmon, Ph.D., Ext. 6716)

PSRY 5005 Off Campus Elective
Location: Off Campus
Enrollment: By Arrangement
Prerequisites: PSRY 5000
Duration: One to Three Months
Months Offered: July through June

Goals:
Special arrangements can be made for elective rotations at other institutions or for preceptorships with individual psychiatrists.

Objectives: Objectives will vary depending upon the institution and preceptor.
(Stewart Shevitz, MD, Ext. 1-6713)

PSRY 5007 Eating Disorders Rotation
Location: GRU Hospital, 3-South and Outpatient Psychiatry
Enrollment: Maximum: 1
Prerequisites: PSRY 5000
Duration: One to Three Months
Months Offered: By Arrangement

Goals:
To provide the student doctor with an opportunity to be an active member of the GRU Eating Disorders Treatment Team.

Activities:
Students will be given a number of responsibilities to include:
• Observation and participation in initial assessments and evaluations of patients with eating disorders and patients being evaluated for bariatric surgery
• Observation and participation in individual and group psychotherapy of both inpatient and outpatient eating disordered patients
• Performing psychopharmacological management and medical assessment and treatment of inpatients with eating disorders

Lecture Hrs: 0  Clinic Hrs: 40
Lab Hrs: 0  Seminar Hrs: 0
Small Group: 0  Other:

Assessment:
Students will be provided reading material concerning a comprehensive biopsychosocial approach to the assessment and treatment of eating disorders.
• Associated didactic learning experience

Lecture Hrs: 2  Clinic Hrs: 40
Lab Hrs: 0  Seminar Hrs: 0
Small Group: 0

Course co-director: Krystle Graham, DO (1-6594)

**PSRY 5023 Inpatient/Outpatient Child Psychiatry**
Location: GRU Hospital, Outpatient Clinics and sites approved by course director
Enrollment: 1 per rotation
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: 8 months a year by arrangement

**Goals:**
To provide the student doctor with knowledge of diagnostic issues, evaluation strategies, behavioral and pharmacologic treatments, and mental health resources available for children. This rotation includes the treatment of children and adolescents admitted for acute psychiatric care and outpatient clinic experience with children and adolescents who are followed for less acute issues such as maintenance of depression, ADHD and behavioral disruption.

**Objectives:**
- Endorse familiarity with mental health issues facing children, adolescents and their families.
- Understand the concept of multidisciplinary treatment and the benefit of this form of treatment for the care of pediatric patients.
- Appropriately discern which disorders may be treated by primary care physicians and which disorders are best referred for specialty treatment by a child and adolescent mental health professional.
- Formulate a biopsychosocial description of a clinical presentation and make recommendations for treatment consistent with that formulation.

**Activities:**
- Participate as a member of a multidisciplinary inpatient treatment team in the evaluation and inpatient care of children (ages 3-17 years) with severe behavioral and emotional problems
- Be involved in individual, family, and group treatment modalities as well as attend didactic presentations on topics in child psychiatry
- Participate in clinic to appreciate outpatient care and maintenance of treatment for less severe emotional and behavioral disturbance.

Lecture Hrs: Variable (Optional)  Clinic Hrs: 3
Lab Hrs: 0  Seminar Hours: Variable (Optional)
Small Group: 0  Other: NA

**Assessment:**
The student will work directly with faculty and child psychiatry fellows as well as social work, a special education teacher, psychology, and ward nursing staff. Assessments are performed using a 360 degree model of evaluation with input from all disciplines with which the student has worked.

(Lisa Sheehan, MD, Ext. 3438/Miranda Harris, MD, Ext. 3141)

**PSRY 5028 HIV/AIDS: Psychiatric and Psychosocial Issues**
Location: Outpatient Psychiatry, Infectious Disease Clinic, and Pediatric Infectious Disease Clinic
Enrollment: 1 per rotation
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: By Arrangement

**Goals:**
To provide the student doctor with the opportunity to explore the psychological impact of HIV/AIDS by participating as part of GRU’s HIV/AIDS Mental Health Treatment Team.

**Objectives:**
Emphasize issues that include:
- Common psychiatric disorders in the HIV population
- Substance abuse
- Cultural and sexual orientation diversity
- Psycho-pharmacology in HIV disease management
- Adjustment to illness
- Treatment adherence
- End-stage AIDS/grief work

**Activities:**
Participate in the treatment of individuals infected with and affected by HIV/AIDS through
- Assessment
- Individual and family therapy
- Psychological consultation in several HIV/AIDS treatment environments

Lecture Hrs: 0  Clinic Hrs: 15-20/wk
Lab Hrs: 0  Seminar Hrs: 0
Small Groups: 2/wk  Other: 2/wk

Reading assignments will be provided and students will participate in an ongoing “Diversity Issues in HIV” reading group.

(Lara Stepleman, PhD, Ext. 1-7969)

**PSRY 5029 Molecular Neurobiology of Treatment Outcome of Schizophrenia**
Location: Interdisciplinary Research Center (CA) Room 1053
Enrollment: Maximum: 2
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: By Arrangement

**Goals:**
To provide the student doctor with the opportunity to understand the neurobiology of psychiatric disorders.
Objectives:
- To study the molecular and cellular markers in peripheral as well as postmortem brain samples from subjects with schizophrenia, bipolar disorder, autism or suicide victims.
- To study the neurobiological mechanisms for psychiatric illness (such as schizophrenia, depression or autism) using animal models.

Activities:
- Training in all aspects of laboratory analysis
- Observation of clinical assessments in patients

Lecture Hrs: 0  Clinic Hrs: 0
Lab Hrs: 8/day  Seminar Hrs: 0
Small Group: 0  Other: None

Dr. Anilkumar Pillai (706-733-0188 Ext. 2491)

**PSRY 5036 – Inpatient and C/L Psychiatry**
Location: Dwight D. Eisenhower AMC
Enrollment: Minimum: 1  Maximum: 1
Prerequisites: PSRY 5000
Duration: 1 to 3 months
Months Offered: July through June, by arrangement

Goals:
To include the learner as an integral part of an Army hospital psychiatry inpatient team on 13-East, an adult inpatient psychiatric unit offering an interdisciplinary approach to soldier care. A significant component of Consult Liaison Psychiatry will be afforded to the rotating student.

Objectives:
To introduce the student to a diverse patient population which will provide him/her with learning experiences in:
- Mood disorders
- Psychotic disorders
- Eating disorders
- Organic mental disorders
- Adjustment disorders
- Post traumatic stress disorder
- Personality disorders
- Substance abuse and acute detoxification
- Management of acute agitation
- Psychopharmacology
- Inpatient psychotherapy in individual and group setting
- Management of medical problems contributing to psychiatric illness
- Assessment of competency, informed consent
- Consult Liaison evaluation and coordination with referring medical/surgical teams

Activities:
Students will be given a number of responsibilities to include:
- Observation and participation in initial assessments and evaluations
- Observation and participation in psychopharmacological management and medical assessment and treatment
- Direct patient care
- Team meetings

- Group therapy
- Liaison with other services

Associated didactic learning experience:
- Departmental Ground Rounds
- Department of Psychiatry Case Conference and Journal Club activities

Lecture Hrs: 1-2/wk  Clinic Hrs: 40-50
Lab Hrs: 0  Seminar Hrs: 0
Small Group: 0

Assessment:
Clinical performance evaluation by faculty to assess the following skills:
- Patient Care
  - Psychiatric interviewing
  - Mental Status Examination
  - Performance on administering assessment tools
  - Understanding the psychopharmacology of this population
- Medical Knowledge
  - Practice-based learning and improvement
  - Professionalism
  - Interpersonal and communication skills
  - Systems-based learning

Course Directors: Christopher Hines, MD and Linda Evans, MD

**PSRY 5039 Neuropsychology/Rehabilitation Psychology Clinical Practice and Research**
Location: Walton Rehabilitation Hospital; Medical College of Georgia Health Incorporated Hospital
Enrollment: Minimum: 2  Maximum: 2
Prerequisites: PSRY 5000
Duration: 1 to 3 months
Months Offered: July through June, by arrangement

Goals:
- To introduce the medical student to the fundamentals of the clinical practice and research of neuropsychology/rehabilitation psychology.
- To introduce the medical student to the practice of reviewing scientific literature as would be relevant for dissemination of scientific information, such as poster presentations and scientific articles.

Objectives:
- Provide the student with learning experiences related to the provision of neuropsychology/psychology evaluation and treatment (e.g. psychotherapy) to inpatients and outpatients with traumatic brain injury (TBI), dementia and other cognitive disorders, seizure disorders, toxic-metabolic disorders, encephalopathies, chronic pain, movement disorders (including Parkinson’s disease), stroke, with or without comorbid mental health disorders.
• Gain understanding of the practice of neuropsychology/psychology with Dr. Jeremy Hertz & Dr. Gregory Lee
• Introduce student to research as it relates to the clinical practice of neuropsychology

Activities:
Observation and participation as experience and interest dictate in:
  a) Reviewing current literature, summarizing as it appropriate for manuscript publication
  b) Observing neuropsychological and neurobehavioral assessments
  c) Basic understanding of test norms and test scoring

These activities will take place under the supervision of Dr. Hertza & Dr. Lee

Associated didactic learning experiences:
1. Weekly meetings with Dr. Hertz/Dr. Lee to discuss core readings and literature review findings. Meetings will be designed to foster an understanding of neuropsychology as it relates to neuroanatomy, behavior, differential diagnosis and clinical practice of psychiatry and neurology.
2. At a minimum, three times weekly (Mon-Wed-Fri) participation in daily activities in the inpatient unit and outpatient clinic at Walton Rehabilitation Hospital WRH to foster use of scientific evidence in direct patient care
3. Participation in weekly team meetings/rounds at WRH (Minimum of Mon or Tues and Wed or Thurs)

Student will spend a minimum of 1 hour per week in didactic instruction with Dr. Lee at GRU Department of Neurology

Assessment:
Students will have a mid rotation evaluation and a final evaluation. At the final evaluation student should present a specific case to WRH department of Behavioral Medicine. Presentation will be open to WRH and MCG.

Lecture Hrs: 1-2/wk  Clinic Hours:  40-50
Lab Hrs:  Seminar Hours:
Small Group: depends on number of students on rotation

PSRY 5040 Psychiatry Research Elective
Course Directors:  Brian Miller, MD, PhD, MPH (psychotic disorders) and Lara Stepleman, PhD (adjustment to disabling medical conditions (primarily HIV and MS)*, Vaughn McCall, MD (therapeutic brain stimulation, depression clinical trials)
Location:  GRU Health, Inc. Hospital, GRU Department of Psychiatry

Outpatient Clinic and affiliated sites

Pre-requisites:  PSRY 5000
Max Enrollment:  3 students (one student per research mentor)
Months Offered:  July through June (By Arrangement)

*Please contact the respective co-director before enrollment for full details of research program

Goals:
• To introduce the medical student to the fundamentals of the research in psychiatry.
• To introduce the medical student to the practice of reviewing scientific literature as would be relevant for dissemination of scientific information, such as poster presentations and scientific articles.

Objectives:
• The student will demonstrate basic understanding of areas of research in psychiatry.
• The student will perform clinical care of patients disorders under the supervision of attending psychiatrists and psychologists.
• The student will examine and appraise current literature in a manner relevant for dissemination of scientific information.
• The student will develop a presentation for the departmental journal club, case conference or any other appropriate venue.

Activities:
Observation and participation as experience and interest dictate in:
• Reviewing current literature, summarizing it as appropriate for departmental journal club, case conference or any other appropriate venue, and/or for a peer reviewed publication.
• Developing and working on a portion of or a full independent research project.
• Observing clinical assessments used in clinical research.

These activities will take place under the supervision of attending psychiatrists or psychologists or psychiatry or psychology fellows.

Associated didactic learning experiences:
• Weekly meetings with attending to discuss core readings and literature review findings. Meetings will be designed to foster an understanding of clinical research and treatment of mental illness
• Student will participate in clinical activities at GRU or affiliated sites to foster use of scientific evidence in direct clinical care of patients.
• Student will spend time observing clinical research assessments in patients with psychiatric disorders at GRU.
Student will spend a minimum of 2 hours per week in directed study with the attending collaborating on the independent research project.

Assessment:
Students will have a mid-rotation evaluation and a final evaluation. At the final evaluation student should present a summary of their independent research.

Lecture Hours: 1  Seminar Hours: 0
Lab Hours: 4-6  Small Group: 0
Clinic Hours: 40-45 per week  Directed Study Hours: 2.5
Independent Study Hours: 40-50

**PSRY 5041 Addiction Psychiatry**
Location: Ridgeview Institute, Smyrna, GA
Enrollment: Maximum: 1
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: July through June

**Goals:**
- To provide the exposure to the diagnosis and treatment of addiction disease with and without medical and psychiatric co-morbidity.
- The student will become familiar with the clinical practice of addiction psychiatry at various levels of care to include inpatient, residential partial hospitalization, intensive outpatient and outpatient treatment settings.
- Patient population may include adolescents, young adults, geriatric, as well as adult patients.
- Patient care will include detoxification, psychopharmacology, individual, group and milieu therapy and 12 step facilitator.

**Objectives:**
After completing this elective the students will:

**Knowledge:**
1. Recognize the fundamentals of addiction and psychiatric medicine as practiced in a private hospital based setting.
2. Identify to applications of evidence-based mind-body interventions toward symptom reduction, relapse prevention and improved quality of life for a diverse population of patients with addiction and dual diagnosis disease.
3. Recognize the importance of the treatment team approach to addiction psychiatry.
4. Understand the process of providing neuropsychological and psychiatric evaluation and treatment (pharmacology and psychotherapy) to inpatients and outpatients with addictive diseases with or without co-morbid mental health disorders.
5. Recognize the current areas of research as it relates to the clinical practice of addiction psychiatry

**Skills:**
1. Appraise the role of various types of psychotherapy in treatment of addiction (supportive, cognitive, 12-step approach).
2. Appraise various psychopharmacological approaches to treatment of addiction.
3. Demonstrate leadership and therapeutic skills in group setting.
4. Evaluate the practice of addiction psychiatry in various settings: inpatient, residential partial hospitalization, intensive outpatient and outpatient.

**Attitudes:**
1. Implement a mind-body approach in treating addictive disorders
2. Recognize and treat co-morbid disorders in patients who present with dual diagnosis.
3. Feel and communicate hope when making referrals for care of people with addictive disorders with or without other mental health co-morbidity.

**Activities:**
- Observation and participation in:
  - Patient evaluations and treatment plan formation
  - Psychopharmacology, milieu, group and support psychotherapy modality
  - 12-step treatment approach
- Didactic learning experiences:
  - Weekly meeting with Dr. Lynn and associates to discuss core readings and clinical experiences
  - Team treatment rounds
  - Group treatment participation

**Assessment:**
1. Clinical performance evaluation by Dr. Lynn and associates to assess the following skills:
   - Patient interviewing
   - Needs assessment and treatment plan development
   - Case presentation
   - Patient care
   - Group milieu:
     a. Leadership and group dynamics
     b. Therapeutic skills
2. Practice-based learning and improvement
3. Professionalism
4. Interpersonal and communication skills
5. Systems-based learning

These activities will take place under the supervision of Dr. Steven Lynn, MD. Dr. Lynn may be reached at (770) 333-1755.

Lecture Hrs: 1-2 per week  Seminar Hrs: 0
Clinic Hrs: 40-45 per week  Small Group: 0
Lab Hrs:

**PSRY 5042 Outpatient Child Psychiatry – Athens Behavioral Medicine, Inc.**
Location: Athens Campus
Enrollment: Maximum: 1
Prerequisites: PSRY 5000, Step I
Duration: One Month
Months Offered: July through June

**Goals:**
Provide student doctor with the opportunity to become familiar with diagnostic issues, evaluation strategies and behavioral and psychopharmacological treatments in child and adolescent psychiatry.

Objectives:
- Describe the role of the child and adolescent psychiatrist as a member of the health care team.
- Demonstrate history-taking skills that apply to children and adolescents.
- Evaluate the child’s performance in family, school and social situations along with biological predisposition to illness.
- Demonstrate proficient communication with patients, families, colleagues and staff.
- Utilize patient and family education skills.

Activities:
Clinical performance evaluation by faculty is based on student's performance in the areas of: patient care, medical knowledge, practice based learning and improvement, professionalism, interpersonal and communication skills and systems based learning.

*M Faculty:
Kalyn Lane, MD and Thomas McCormack MD

Lecture Hrs:  Seminar Hrs: 
Clinic Hrs: 40  Small Group: N/A
Lab Hrs: N/A  Other:

**PSRY 5043 Emergency Psychiatry Elective**
Location: GRU Health, Inc. Hospital and East Central Georgia Regional Hospital (ECRH)
Enrollment: Maximum: 1
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: By Arrangement

Goals:
- To introduce the medical student to the fundamentals of emergency psychiatry.

Objectives:
After completing this elective the student will:
- Demonstrate basic understanding of the clinical range of psychiatric emergencies, including acute mania and psychosis, drug intoxication and withdrawal, risk of self-harm and harm of others.
- Perform clinical care of patients presenting with mental health complaints in the Emergency Department, under attending supervision.
- Appraise current literature on a topic relevant to Emergency Psychiatry in a manner relevant for dissemination for scientific information.
- Develop a presentation for the departmental journal club, case conference, mortality and morbidity conference or any other appropriate venue.

Activities:
Observation and participation in:
- Patient evaluation, verbal and written patient case presentation including documentation in medical records.

- Psychotherapy techniques frequently used in emergencies: supportive, de-briefing, etc.

These activities will take place under the supervision of Dr. Adriana Foster, MD or her designee.

**Associated didactic learning experiences:**
The student will appraise literature relevant to an emergency psychiatry topic and present in an appropriate venue.

Assessment:
Students will have a mid-rotation evaluation and a final evaluation.

Unique Characteristics:
- 3-weeks of the rotation will be spent at GRU Inc., Medical Center under the supervision of Adriana Foster, MD or her designee.
- 1-week will be spent at ECRH receiving unit in Augusta, GA, under the supervision of a full time or clinical faculty from the ECRH partnership IF TEACHING FACILITY IS AVAILABLE WHEN STUDENT ROTATES.
- During the time spent at GRU Inc. Medical Center, the student will work 12 noon to 8 PM shift for one week. The other 2 weeks at GRU and the week at ECRH, the student will work from 8 AM to 5 PM.

**PSRY 5044 Neurostimulation Elective**
Location: GRU Health, Inc. Hospital, GRU Department of Psychiatry and affiliated sites: Trinity Hospital, Aurora Pavilion (Aiken Regional Medical Center), Eisenhower Army Medical Center
Enrollment: Maximum: 1
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: July through June (By Arrangement); elective time of longer than one month is available

Goals:
To introduce the medical student to the fundamentals of therapeutic neurostimulation in psychiatry. To introduce the medical student to the care of patients with severe, treatment-resistant neuropsychiatric conditions.

Objectives:
At the completion of the rotation, students will:
- Perform a complete evaluation of the patient with a treatment-resistant affective or psychotic disorder.
- Evaluate and communicate the options to patients including risks and benefits of neurostimulation treatments. Obtain informed consent for therapeutic neurostimulation therapies.
- Demonstrate familiarity with established and
emerging treatment modalities of brain stimulation including Transcranial Magnetic Stimulation (TMS), Transcranial Direct Current Stimulation, Vagus Nerve Stimulation (VNS), and Deep Brain Stimulation.

Conduct Electroconvulsive therapy (ECT) and TMS therapies including patient preparation, device set-up, treatment delivery, and aftercare.

Activities:
- Students are expected to attend all ECT sessions during the rotation at GRU and Trinity Hospital and Aiken Regional Medical Center.
- The students will participate in the outpatient ECT evaluation and Therapeutic Neurostimulation Clinic in the Stoney Building Outpatient clinic at GRU, and the TMS clinic at Eisenhower Hospital.
- Students will assist with ECT and TMS consultations, procedures, aftercare management, verification and authorization as necessary.
- Students will complete and document 5 consultations, including assessment and plan covering the following key somatic therapies:
  1) Pharmacologic augmentation strategies
  2) ECT index course
  3) ECT continuation and maintenance therapies
  4) Transcranial magnetic stimulation
  5) Vagal nerve stimulation (when available)

One case report will be used as a stimulus for clinical skills assessment and topic discussion. The case report will be presented by the student orally with either handout or Power Point. Presentation must reference evidence-based medicine and include the most pertinent and recent review articles and RCTs on the topic (or retrospective studies and case series as available).

Assessment:
Students will have a mid-rotation evaluation and a final evaluation. Assessment will be based upon demonstration of core competencies and meeting objectives of the elective.

Lecture Hrs: 1 per week Seminar Hrs: 
Clinic Hrs: 40 per week Small Group: Directed Study Hours: 2.5
Lab Hrs: 0 Independent Study Hours: 20

Course Director: Peter Rosenquist, MD
Course Faculty: Vaughn McCall, MD, Christopher Hines, MD

PSRY 5045 Comprehensive Psychiatry Elective
Location: GRU Health
Enrollment: Maximum: 1 (offered to students planning a career in Psychiatry)
Prerequisites: PSRY 5000
Duration: One Month
Months Offered: July through June (By Arrangement); elective time of longer than one month is available

Goals:

To prepare the student doctor for internship in psychiatry by becoming an integral part of interdisciplinary treatment teams in various mental health care settings.

Objectives:
To introduce the student to a diverse patient population which will provide him/her with learning experiences in:

- Inpatient adult psychiatry, including substance use disorders treatment
- Family therapy
- Somatic treatments including neurostimulation
- Eating disorder program participation
- Child and adolescent experience

Activities:
Student is expected to:
- Demonstrate proficiency in conducting initial assessments and evaluations
- Distinguish appropriate psychopharmacological, somatic treatments, and psychotherapy for psychiatric disorders
- Demonstrate ability to act as primary clinician for patients under attending supervision
- Collaborate as a member of an interprofessional team

Associated didactic learning experience:
- Departmental Ground Rounds
- Department of Psychiatry Case Conference and Journal Club activities
- Family Therapy Seminar

Assessment:
Clinical performance evaluation by faculty to assess the following professional activities:

- Patient Care
  - Perform a psychiatric interview during rounds with treatment team and provide an oral presentation of a clinical encounter
- Practice-based learning
  - Conduct an evidence based presentation to treatment team on patient related topic

Lecture Hrs: 1-2/wk Seminar Hrs: 0
Clinic Hrs: 40-50 per week Small Group: 0
Lab Hrs: 0

Course Directors: Dr. Krystle Graham and Dr. Chelsea Carson

Radiation Oncology
(ALL COURSES IN THE RADIATION ONCOLOGY DEPARTMENT WILL REQUIRE ONE OF THE FOLLOWING SEA FORMS: MCG SPONSORED COURSE FORM OR EXTRAMURAL COURSE FORM)
**RONC 5006 Clerkship in Radiation Therapy Oncology**

**Location:** Georgia Radiation Therapy Center and GRMC  
**Enrollment:** Minimum: 1 Maximum: 2  
**Prerequisites:** None  
**Duration:** 4 weeks  
**Months Offered:** July through April

**Goals:**
The student will gain experience in the workup and general management of the cancer patient in the areas of curative therapy, palliation, and supportive care.

**Objectives:**
The student will be afforded an opportunity to see a large variety of tumors treated with various modalities of radiation therapy.

**Activities:**
The student will participate in tumor conferences at the various hospitals and also attend the radiation therapy cancer clinics at the Georgia Radiation Therapy Center.

**Assessment:**
Clinical performance evaluation by campus faculty to assess the following skills:
- Clinical Assessment Skills
- Medical Knowledge Base Application
- Attendance
- Participation in Case Discussions

For additional information concerning this rotation, please contact Debra Wright or Feng-Ming Kong, MD at ext. 2971 or via email.

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**RONC 5008 Radiation Oncology**

**Location:** Off Campus or Regional Campus sites by special arrangement.  
**Enrollment:** Minimum: 4 Maximum: 10  
**Prerequisites:** None  
**Duration:** 4 weeks  
**Months Offered:** July through April (May-June by arrangement with Dr. Clarence Joe or Mr. James Corley)

**Goals:**
The primary goal of the elective is to help the student develop a better understanding of the functions of radiology as a contributor to primary care of the patient.

**Objectives:**
The student will learn appropriate ordering of radiology studies, radiation safety, and to recognize certain basic radiographic signs and patterns; however, it is not intended that students will be able to “read” a radiograph at the end of the elective.

**Activities:**
The four-week elective provides a basic overview of clinical radiology. Students rotate through most of the major areas of radiology, participating in the clinical diagnostic process. In addition to clinical rotations, lectures and case conferences are scheduled throughout the rotation.

**Assessment:**
Written Pre-Test and Written Post-Test
Clinical performance evaluation by faculty to assess the following skills:
- Clinical Assessment Skills
- Medical Knowledge Base Application
- Attendance
- Participation in Case Discussions
- Case Presentation

**RADM 5003 Clerkship in Pediatric Radiology**
Location: MCGHI Children’s Medical Center
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: None
Duration: 4 weeks
Months Offered: July through April

**Goals:**
The goals of this course include learning basic film reading including chest radiography understanding the modalities to image pediatric pathology, and determining an efficient approach to the radiologic evaluation of the pediatric patient.

**Objectives:**
The student will learn to recognize certain basic radiographic signs and patterns: however, it is not intended that students will be able to “read” a radiograph at the end of the elective.

**Activities:**
This clerkship is designed for students who have an interest in Diagnostic Radiology, Pediatrics, or Family Medicine. The four-week rotation will include exposure to radiography, fluoroscopy, CT, ultrasound, and MRI of the pediatric patient. In addition to didactic lectures, the student will attend film-reading sessions with faculty and resident(s).

**Assessment:**
Written Pre-Test and Written Post-Test
Clinical performance evaluation by faculty to assess the following skills:
- Clinical Assessment Skills
- Medical Knowledge Base Application
- Attendance
- Participation in Case Discussions
- Case Presentation

**RADM 5004 Advanced Clerkship in Diagnostic Radiology**
Location: MCGHI Hospital and/or VAMC
Enrollment: Minimum: 1 Maximum: 4
Prerequisites: RAD 5001 (or permission of Course Coordinator)
Duration: 4 weeks
Months Offered: July through April (May-June by arrangement with Dr. Clarence Joe or Mr. James Corley)

**Goals:**
The goals of this course include understanding the modalities to image pathology, and determining an efficient approach to the radiologic evaluation of the patient for those students desiring additional exposure to diagnostic radiology.

**Objectives:**
The student is assigned to work with a mentor in the areas of his/her specific interest. Together, they plan objectives and activities to include patient care, academic pursuits, and/or research.

**Activities:**
This clerkship is designed for students who have an interest in Diagnostic Radiology, Orthopedics, Neurology or Neurosurgery. The four-week rotation will include exposure to radiography, fluoroscopy, CT, ultrasound, and MRI of the patient. In addition to didactic lectures, the student will attend film-reading sessions with faculty and resident(s).

**Assessment:**
Written Pre-Test and Written Post-Test (waived if student has taken Rad 5001)
Clinical performance evaluation by faculty to assess the following skills:
- Clinical Assessment Skills
- Medical Knowledge Base Application
- Attendance
- Participation in Case Discussions
- Case Presentation

**RADM 5005 Radiology Clerkship**
Location: Off Campus site by special arrangement
Enrollment: Variable
Prerequisites: None
Duration: Variable
Months Offered: July through April

**Goals:**
Special arrangements can be made for elective periods of four weeks in the Department of Radiology of other institutions or as preceptorships with individual radiologists, subject to approval of the Chairman of the GRU Department of Radiology.

**Objectives:**
The student must work with a mentor at the off campus site to plan objectives, activities, and evaluation of experiences. This course is generally considered to be comparable to RAD 5001 in purpose and design.

**Activities:**
This elective designed for the student who is considering pursuit of a radiology residency and who would like to obtain additional and varied experiences in the field.

**Assessment:**
Clinical performance evaluation by off campus faculty to assess the following skills:
- Clinical Assessment Skills
- Medical Knowledge Base Application
- Attendance
- Participation in Case Discussions

**RADM 5007 Vascular/Interventional Radiology**

Location: GRU  
Enrollment: Maximum: 2  
Prerequisites: Senior Medical Student  
Duration: 4 weeks  
Months Offered: By arrangement with Mr. James Corley or Dr. Jay Radhakrishnan

**Goals:**
To gain an understanding of the scope of Interventional Radiology procedures, including patient work-up, as well as how Interventional procedures are performed.

**Objectives:**
Students will assist with patient preparation and monitoring, write clinical workups, observe procedures, and assist residents/fellows in preparation for case conferences.

**Activities:**
The student works with faculty interventional radiologists in the performance of vascular and interventional procedures. Sufficient time will be allowed for studying the teaching file and participating in similar learning activities.

**Assessment:**
Clinical performance evaluation by campus faculty to assess the following skills:
- Clinical Assessment Skills
- Medical Knowledge Base Application
- Attendance
- Participation in Case Discussions

**RADM 5013 Radiology Research Elective**

Location: MCGHI Adult Hospital, MCGHI Children’s Medical Center, Georgia Radiation Therapy Center  
Enrollment: Variable  
Prerequisites: None  
Duration: 4 weeks  
Months Offered: By arrangement with radiology faculty and Mr. James Corley

**Goals:**
The goal of this elective is to provide the student with an opportunity to learn fundamental methods and experimental design in radiology research. The research activities shall have direct relevance to the clinical interests of the student.

**Objectives:**
To guide the student in the fundamental process of basic science/clinical research including the development of a short research proposal, implementation of experimental methods and critical exchange of ideas with other researchers.

**Assessment:**
The student will submit well written, 2-3 page summary of the research describing the hypothesis tested, relevant literature, methods used and data obtained as well as a comprehensive, The succinct discussion of how the findings obtained add to the body of knowledge being investigated.

**Lecture Hrs:** 0  
**Clinic Hrs:** 0  
**Lab Hrs:** 8  
**Seminar Hrs:** 0

**Rad 5014 Community Based Radiology Elective**

Location: NE/NW/SE/SW  
Enrollment: Max 12  
Prerequisites: Must be a residential student assigned to the NE/NW/SE/SW Regional Campus  
Duration: One Month  
Months Offered: By Arrangement through the NE/NW/SE/SW Campuses and departmental approval

**Course Description:** Special arrangements can be made for elective periods of one month in Radiology in Southeast and Southwest Georgia.

**Lecture Hrs:** 0  
**Clinic Hrs:** 40 hrs wk  
**Lab Hrs:** 0  
**Seminar Hrs:** 0  
**Small Group:** Other  
**Other:**

**RADM 5015 – Introduction to Clinical Ultrasound**

Location: GRU  
Pre-requisites: None  
Max Enrollment: Min: 2 Max 6  
Months Offered: July-April (May and June with permission)

**Goals:**
The goal of this elective is to promote ultrasound technology as a clinical skills tool to transform basic knowledge and experience of MCG medical students with ultrasound technology to enable readiness to incorporate these skills set into clinical practice.

**Objectives:**
At the conclusion of the course, the learner will:
- Recall key information concerning introductory ultrasound topics including history of ultrasound technology, basic ultrasound physics, principles, screen orientation, scan techniques, and machine knobology.
- Recognize common ultrasound applications and appropriate indications, pre-exam activities,
patient preparations, and common scanning protocols.

- Demonstrate introductory ultrasound scanning skills thru hands-on scanning labs.
- Observe the performance and dictation of ultrasound exams in a clinical patient care settings.

Activities:
May include but is not limited to: instructor lectures, hands-on ultrasound scanning, ultrasound clinical observation, formative and summative assessment, Independent study.

Assessment:
May include but is not limited to: formative and summative assessments covering didactic content, lab aspect, and ultrasound clinic observation.

Lecture Hrs:  4  Clinic Hrs: 4 hrs wk
Lab Hrs:  4  Seminar Hrs:  
Small Group:   Other:  

For additional information concerning this rotation, please contact Jim Corley or Rebecca J. Etheridge (Course Director).

**SURG 5002 General Surgery Research**

Location:  GRU Hospital, VA
Enrollment:  Minimum: 1  Maximum: 2 per tutor
Prerequisites:  None
Duration:  One to Two Months
Months Offered: July through June

Goals:
Increased knowledge and skill, in appreciation of the field of surgical research.

Objectives:
The student will:
- Study in depth a surgical topic of interest under the supervision of a faculty member familiar with that topic.
- The student will prepare an acceptable thesis/report on his/her chosen topic.

Activities:
Activities in the library, laboratory, etc. not to exceed 80 hour work week.

Assessment:
By faculty supervisor will include evaluation of the effort and skills invested in the project and of the final report.

**SURG 5003 Preceptorship**

Location:  To be provided at time of Registration
Enrollment:  Minimum: 1  Maximum: 2 per preceptor
Prerequisites:  Surgery Core
Duration:  One to Two Months
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Surgery and in the care of surgical patients.

Objectives:
The student will:
- The student will perform accurate and thorough history and physical examination on surgical inpatients and outpatients.
- Participate with increasing responsibility under supervision in the evaluation of preoperative and postoperative care of surgical patients.
- Appropriately participate in patient procedures.

Activities:
Participate in all activities of the preceptor’s practice including exposure to outpatients, inpatients and procedures.

Assessment:
Clinical performance assessment by preceptor will include evaluation of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions.
- General surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability.

Dr. Vendie Hooks and his colleagues in Colo-rectal surgery at University Hospital have expressed particular interest in medical students participating in this Preceptorship.

**SURG 5004 Off Campus Experience**

Location:  To be provided at the time of registration
Enrollment:  Minimum: 1  Maximum: 2
Prerequisites:  Surgery Core
Duration:  One to Two Months
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of surgery and in the care of surgical patients.

Objectives:
The student will:
- Perform accurate and thorough history and physical examinations on surgical inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation of preoperative and postoperative care of surgical patients
- Fully participate in all educational conferences.
- Appropriately participate in patient procedures.
Activities:
Students may elect off campus experience in some phase of surgery in some other Medical School or Institution for a period of one month. For help in making arrangements, interested students should contact the Medical College of Georgia counterpart of the individual at the other institution with whom they wish to work. Such electives must be an identifiable course of instruction. An evaluation of student’s performance will be required. No student is eligible for more than one such elective.

Hours not to exceed 80 hour work week.

Assessment:
Clinical performance assessment will include assessment of:

- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- General Surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

SURG 5005 Senior Student Trauma Rotation
Location: Memorial Medical Center
Savannah, Georgia
Enrollment: Maximum: 1
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skill in the practices and principles of the evaluation and care of the multiple injured trauma patients.

Objectives:
The student will:

- Participate at an appropriate level in the evaluation and management of trauma patients in the Emergency Department, Operating Room, intensive care unit and wards.
- The student will gain an understanding of the importance of the trauma care system in prehospital care of the trauma patient.

Activities:
The student will be assigned to the Director of the Trauma Service and be responsible to him. The experience will include trauma call, trauma surgery, patient care in the trauma intensive care unit, and patient care in the outpatient clinics. Lectures on trauma care and trauma system development will be included. An introduction to the principles and practices of prehospital care to include experience on both helicopter and ground EMS services, is included.

Not to exceed 80 hour work week.

Assessment:
Clinical performance assessment by residents and faculty will include evaluation of:

- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- General surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

SURG 5006 Advanced Clerkship at Memorial Medical Center, Savannah, GA
Location: Memorial Medical Center Inc.
Savannah, GA
Enrollment: Maximum: 2
Prerequisite: Surgery Core
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Surgery and in the care of surgical patients.

Objectives:
The student will:

- Perform accurate and thorough history and physical examination on surgical inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation of preoperative and postoperative care of surgical patients
- Fully participate in all educational conferences
- Appropriately participate in patient procedures

Activities:
During this elective experience the student will be assigned to one of the general surgical services and function as an intern under the watchful eye of the chief resident and chief of service. He or she can expect to be responsible for assigned patients, do a complete work up, scrub on the surgery, be asked to write orders, and follow the patient throughout their hospital course. This elective will be useful in allowing the students to determine whether they wish to pursue a career in surgery or not.

Participation as above in all activities of the surgical service.
Hours not to exceed 80 hour work week.

Assessment:

- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- General surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

Arrangement should be made through VSAS. If you need access to VSAS please contact the Curriculum Office at 706-721-3219. Leigh Anne Kirkland at (912-350-8076) is the Memorial Hospital contact. You must apply and be accepted on VSAS before submitting SEA Form for approval by the Surgery Coordinator.
Arrangement should be made through VSAS. If you need access to VSAS please contact the Curriculum Office. Leigh Anne Kirkland at (912-350-8076) is the Memorial Hospital contact. SEA Forms are still needed to be approved by the Surgery Coordinator.

**SURG 5007* Substitute Internship**

Location: GRU Hospital and VA Hospital  
Enrollment: Maximum 2 per month, per subspecialty (one student each for MCG MDDS Surgery, Pediatric Surgery, Vascular/Transplant Surgery, Surgical Oncology, VAMC Surgery, Plastic Surgery, Neurosurgery, Orthopedics and Otolaryngology, Urology Maximum is 3 per month).

Prerequisites: Phase 3 Core Curriculum  
Duration: Four Weeks  
Months Offered: July through June  
Goals: Increased knowledge and skills in the field of Surgery and in the care of surgical patients.

Objectives:  
The student will:  
- Perform accurate and thorough history and physical on surgical inpatients and outpatients.  
- Participate with increasing responsibility under supervision in the evaluation of preoperative and postoperative care of surgical patients  
- Fully participate in all educational conferences  
- Appropriately participate in patient procedures.

Activities:  
Students on this elective will function as substitute interns on the Surgical Services at the Medical College of Georgia and VA Hospital. The student will be assigned a specific surgical service and will function as an integral part of that service. The student is expected to initiate the clinical data base, begin diagnostic measures, and where possible, perform surgical procedures with supervision. In addition he/she will participate in the teaching responsibilities, conferences, clinics, and operating experiences of the service to which he/she is assigned and he/she will be assigned night call responsibilities. Participation as above in all activities of the surgical service. Hours not to exceed 80 hours. (Dr. Robert Nesbit.)

Assessment:  
- Patient Evaluation skills  
- Patient management abilities  
- Professionalism and patient interactions  
- General Surgical Knowledge  
- Ability to find and manage medical information  
- Appropriate level of technical ability

SEA Forms still need to be approved by the Surgery Coordinator.

**SURG 5008 Clinical Management of the Critically Ill Injured Patient**

Location: GRMC  
Enrollment: Minimum: 1 Maximum: 3  
Prerequisites: Phase 3 Core Curriculum

Duration: One Month  
Months Offered: July through June  
Goals:  
To increase the student's knowledge and skill by participating in the initial assessment, stabilization, surgical intervention, critical care management, ware care and clinic follow-up of the multiple trauma patient.

Objectives:  
At the conclusion of this rotation the student will have an understanding of:  
- The initial assessment, resuscitation, and stabilization of a trauma patient.  
- Evaluated trauma patients, completed a history and physical, and presented a plan of care to the trauma patient care team.  
- Observed and participated as appropriate in the surgical intervention of traumatic injuries.  
- Participated as appropriate in clinical procedures in the ICU and ward setting.  
- Have an increased understanding of the complexities of trauma care including family support, financial constraints, and complex discharge planning, including rehabilitation needs.

Activities:  
The student will be involved in the care of patients on the Trauma Service. These patients frequently have injuries and functional disruption of multiple organ systems, and therefore offer an opportunity in learning complex trauma and critical care management. Neurological, cardiovascular, pulmonary, and renal physiology is stressed and the frequent use of intracranial pressure monitoring, invasive cardiovascular monitoring, and mechanical ventilatory support provide extensive experience in care of the critically ill. The interrelationship of anatomy, pathophysiology, biochemistry, pharmacology, and microbiology is studied in the management of trauma and critical care. Selected readings and didactic presentations are also used as teaching methodology. These students participate as active members of the trauma patient care team.

**SURG 5009 Clerkship, Atlanta Medical Center**

Location: Atlanta Medical Center, Atlanta, GA  
Enrollment: Minimum: 1 Maximum: 6  
Prerequisites: Core Curriculum  
Duration: One Month Minimum, Two Months Max  
Months Offered: July through June  
Goals: Increased knowledge and skills in the field of surgery and in the care of surgical patients.

Objectives:  
The student will:  
- Perform accurate and thorough history and physical examination on surgical inpatients and outpatients.  
- Participate with increasing responsibility under supervision in the evaluation of
Preoperative and postoperative care of surgical patients.

- Fully participate in all educational conferences.
- Appropriately participate in patient procedures.

Activities:
During assignment in surgery at Atlanta Medical Center in Atlanta, students will be introduced to surgical educational experience, there will be daily morning academic encounters through attending teaching, covering various areas of general and subspecialty surgery, giving academic instructions to cardiovascular, pulmonary, urologic, trauma, plastic and general surgery. The student will be assigned daily to surgical procedures and will usually observe two to three cases. Participation in private office and clinics is expected. Special attention will be devoted to the principles of physical examination of the acute and chronic surgical problems. Bedside teaching in these areas will be paramount. To supplement lectures and operative experience, surgical rounds will be conducted daily, on the floors and in the intensive care unit areas with the surgical house officers and Chief Resident in Surgery. Special attention during these rounds will be given to problems of critical care monitoring, fluid and electrolyte replacement, hyperalimentation, and cardiopulmonary management. A surgical library is provided for reading and study during free time and academic pursuit along these lines is stressed while learning practical experience of patient evaluation and care. Participation as above in all activities of the surgical service. Hours not to exceed 80 hour work week.

Assessment:
Clinical performance assessment by residents and faculty will include evaluation of:
- Patient evaluation skills.
- Patient management abilities.
- Professionalism and patient interactions.
- General Surgical knowledge.
- Ability to find and manage medical information.
- Appropriate level of technical ability.

Senior students interested contact the Student Coordinator for the Department of Surgery at Atlanta Medical Center (404) 265-4411.

SURG 5013 Surgical Critical Care/Trauma Clerkship
Location: Atlanta Medical Center
Atlanta, Georgia
Enrollment: Maximum: 1
Prerequisites: Phase 3 Core Curriculum
Duration: 1 Month
Month Offered: July through June

Goals:
Increased knowledge and skill in the practices and principles of the evaluation and care of the multiple injured trauma patients.

Objectives:
The student will participate at an appropriate level in the evaluation and management of trauma patients in the Emergency Department, Operating Room, intensive care unit and wards.

SURG 5015 Tutorial in the History of Medicine
Effective 6/30/2013 this elective will NOT count toward the on campus graduation requirement

Location: GRMC
Enrollment: Maximum: N/A
Prerequisites: None
Month Offered: August through June

Goals:
To help students evaluate and appreciate the broad history of medicine and place current issues in historical context. (This is not limited to the history of Surgery)

Objectives:
In addition to reading and writing questions and a review based on a specified general medical history text, the student will research a topic of interest to him/her and approved by Dr. Nesbit and submit a formal research paper based on that topic to him.

Activities:
The student will meet with Dr. Nesbit prior to the elective to discuss a topic. The activity will otherwise be independent study which may be done off campus.

Assessment:
Assessment will be based on the quality of the student's work and objective evaluation of the final paper.

Elective must be approved by Dr. Robert Nesbit (BB 4521 or 721-1967) and also requires the signature of the
SURG 5016 Substitute Internship – Off Campus

Location: Off Campus
Enrollment: Maximum: 2 per month
Prerequisites: Phase 3 Core Curriculum
Month Offered: July through June

Goals:
Increased knowledge and skills in the field of Surgery and in the care of surgical patients.

Objectives:
The student will:
- Perform accurate and thorough history and physical examinations on surgical inpatients and outpatients.
- Participate with increasing responsibility under supervision in the evaluation and preoperative and postoperative care of surgical patients.
- Fully participate in all educational conferences.
- Appropriately participate in patient procedures.

Activities:
Students on this elective will function as substitute interns on the General Surgical Service at an approved institution. The student will be assigned to a specific surgical service and will function as an integral part of that service. The student is expected to initiate the clinical data base, begin diagnostic measures, and where possible, perform surgical procedures with supervision. In addition he/she will participate in the teaching responsibilities, conferences, clinics, and operating experiences of the service to which he/she is assigned and he/she will be assigned night call responsibilities. Hours not to exceed 80 hours. (Dr. Robert Nesbit.)

Assessment:
Will include assessment of:
- Patient Evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- General Surgical Knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability.

NOTE – This elective must be discussed with and approved in advance by Dr. Nesbit. It will only be approved at an academic institution which does have surgical housestaff and it must give the student all of the experiences and responsibilities that he/she would have as a substitute intern at MCG.

SURG 5378 Colorectal Surgery Elective

Location: Atlanta, GA
Enrollment: Minimum: 1 Maximum: 2 per preceptor
Prerequisites: Surgery Core
Duration: One to Two Months
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of colorectal surgery and in the care of surgical patients.

Objectives:
The student will:
- Perform accurate and thorough history and physical examination on surgical inpatients and outpatients.
- Participate with increasing responsibility under supervision in the evaluation of preoperative and postoperative care of surgical patients.
- Appropriately participate in patient procedures.

Activities:
Participate in all activities of the preceptor’s practice including exposure to outpatients, inpatients and procedures.

Hours not to exceed 80 hour work week.

Assessment:
Clinical performance assessment by preceptor will include evaluation of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- General surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability.

Contact: Cheryl Hagedorn
Fellowship Coordinator
404.851.1336 ext. 338
chagedorn@gcrsa.com

SURG 5380 Preparation for Surgical Residency Elective (“Surgical Boot Camp”)

Location: Surgical Simulation Lab
Enrollment: 12 Max (preference given to students going into general surgery)
Prerequisites: Surgical Subinternship, matched into Surgical Program
Duration: 4 weeks
Months Offered: March

Goals:
This elective has been specifically designed for students entering a surgical residency. The aim is to prepare the student with the basic surgical skills and knowledge necessary to successfully begin their PGY 1 year in surgical training.

Objectives:
The student will:
- Perform the intern-level surgical skills at the proficiency level of a PGY 1 resident.
- Demonstrate knowledge equivalent to a PGY 1 resident in the following areas: surgical infection, wound care, nutrition management, critical care management, anesthesia, and hematologic disorders pertinent to surgical care.
Demonstrate adequate knowledge and skills in the following content areas: professionalism, critical appraisal of the literature, & ethical treatment of patients.

**Activities:**
- Surgical Basic Skills Simulation Training
- Endoscopic Skills Simulation Training
- Laparoscopic Skills Training
- Attendance at Surgical Conferences
- Presentation at Tumor Board
- Minor OR Procedures
- Practice On-Call Telephone Calls

**Assessment:**
- Skills exams
- Written exams
- Tumor Board Presentation

Arrangements for this elective should be made through the Department of Surgery, Medical College of Georgia by contacting Grace Piaia (706) 721-4143. Dr. E. James Kruse is the course director for this rotation.

Teaching activities with time commitment per week/Weekly contact hours:
- Lecture Hours: 10
- Seminar Hours: 0
- Lab Hours: 20
- Small Group: 10
- Clinic Hours: 0

**Neurosurgery**

**SURG 5200 Neurosurgery Clerkship**

- **Location:** GRMC, VAMC
- **Enrollment:** Minimum: 1 Maximum: 4
- **Prerequisites:** NEU 5000 and Surgery Core
- **Duration:** One to Two Months
- **Months Offered:** July through June

**Goals:**
Increased knowledge and skills in the field of Neurological Surgery and in the care of neurological surgery patients.

**Objectives:**
- The student will perform accurate and thorough neurological examination of neurosurgical inpatients and outpatients.
- Participate in the evaluation of neurological surgery patients.
- Fully participate in all educational conferences.
- Appropriately participate in patient procedures.

**Activities:**
This externship provides opportunity for combining the direct patient care responsibilities of a junior house officer with practice in performing neurological examinations while participating with staff members in the practice of neurosurgery. The extern will be assigned eight patients for whom he will have primary responsibility for daily care under the supervision of the senior house officer and staff of the Neurosurgery Service. He/she will participate in patient evaluations in the clinic and daily teaching conferences. This elective provides for a close working relationship between the staff and the student while at the same time providing opportunity for patient care responsibilities. Participation as above in all activities of the Neurosurgical Service.

**Assessment:**
Will include evaluation of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Neurosurgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

**SURG 5202 Neurosurgery Preceptorship**

- **Location:** To be provided at time of Registration
- **Enrollment:** Minimum: 1 Maximum: 2
- **Duration:** One to Two Months
- **Prerequisites:** NEU 500
- **Months Offered:** July through June

**Goals:**
Increased knowledge and skills in the field of Neurological Surgery and in the care of neurological surgery patients.

**Objectives:**
- The student will perform accurate and thorough neurological examination of neurosurgical inpatients and outpatients.
- Participate in the evaluation of neurological surgery patients.
- Fully participate in all educational conferences.
- Appropriately participate in patient procedures.

**Activities:**
This elective provides an opportunity for students who wish to study neurosurgery at another institution. It will be necessary to discuss the needs of the student in detail with Dr. Mark Lee prior to arranging this elective.

**Assessment:**
Will include evaluation of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Neurosurgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

**SURG 5203 Combination Neurosurgery Clerkship and Research**

- **Location:** GRMC or VAMC
- **Enrollment:** Minimum: 1 Maximum: 2
- **Prerequisites:** NEU 5000 and Surgery Core
- **Duration:** July through June

**Goals:**
Increased knowledge and skills in the field of Neurological Surgery and in the care of neurological patients, and participation in a limited neurological clinical research experience.

**Objectives:**
- The student will:
• Perform accurate and thorough neurological examination of neurological surgery inpatients and outpatients
• Participate in the evaluation of neurological surgery patients
• Fully participate in all educational conferences
• Appropriately participate in patient procedures
• Participate in a clinical research project

Activities:
This experience provides opportunity for direct patient care responsibilities of a junior house officer with practice in performing neurological examinations and participating in neurosurgical therapy and simultaneously becoming involved in a limited neurosurgical clinical research experience. The research project may be initiated by the student or he/she may elect to participate in an ongoing research project with one of the faculty members. The patient care responsibilities will be limited to five or six patients and accomplished under the supervision of the chief resident and staff. This elective will necessarily be arranged on an individual basis with the particular faculty member with whom the student wishes to perform the research in order to assure facilities. Participation as above in all activities of the Neurosurgical Service.

Hours not to exceed 80 hour work week.

Assessment:
Will include assessment of:
• Patient evaluation skills
• Patient management abilities
• Professionalism and patient interactions
• Neurosurgical surgical knowledge
• Ability to find and manage medical information
• Appropriate level of technical ability

SURG 5205 Pediatric Neurosurgery Clerkship
Location: GRU Hospital
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: NEU 5000
Duration: One Month
Months: July through June

Goals:
Increase knowledge and skills in the field of Pediatric Neurosurgery and in the care of Pediatric Neurological surgery patients.

Objectives:
The student will:
• Perform accurate and thorough neurological examination of pediatric neurosurgery inpatients and outpatients.
• Participate in the evaluation of pediatric neurological surgery patients.
• Fully participate in all educational conferences.
• Appropriately participate in patient procedures.

Activities:
Pediatric Neurosurgery focuses on the management of developing nervous system. This elective will encompass inpatient and outpatient care of these children. The student will participate in daily ward rounds, diagnostic and treatment planning, surgery and Outpatient evaluation under the supervision of Neurosurgery houses officers and faculty. The emphasis of the clerkship will be on the unique nature of children's neurosurgical problems, as well as on the management of these problems, both through surgery and the interactions with other medical and surgical pediatric specialist such as Neonatology, Neurology, Oncology and Intensive Care. Participation as above in all activities of the Neurosurgical Service.

Hours not to exceed 80 hour work week.

Assessment:
Will include assessment of:
• Patient evaluation skills
• Patient management abilities
• Professionalism and patient interactions
• Pediatric neurosurgery surgical knowledge
• Ability to find and manage medical information
• Appropriate level of technical ability

Otolaryngology

SURG 5250 Otolaryngology
Location: GRMC
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Surgery Core
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Head and Neck Surgery and in the care of otolaryngology patients.

Objectives:
The student will perform:
• Perform accurate and thorough Head and Neck exam.
• Become familiar with other modalities of head and neck evaluation including Radiology, Audiometrics and Endoscopic procedures.
• Learn the principle of Head and Neck Surgery, facial plastic surgery, endoscopy and neurotology.

Activities:
This clerkship is designed to familiarize the student with the diseases of the ears, nose and throat with emphasis on diagnostic techniques, including physical examination techniques, radiology, audiometrics and endoscopic procedures. The student will be introduced to the principles of head and neck surgery, facial plastic surgery, endoscopy and neurotology. The utilization of the office and hospital patients will allow the student to participate in and observe the specialty of Otolaryngology.

Not to exceed 80 hour work week. (Dr. David Terris)

Assessment:
Will include assessment of:
• Patient evaluation skills
• Patient management abilities
• Professionalism and patient interactions
- Head and Neck and otolaryngology surgical knowledge
- Ability to find and manage medical information.
- Appropriate level of technical ability.

**SURG 5251 Otolaryngology Surgery**

Location: VA Hospital

Enrollment: Minimum: 1 Maximum: 2

Prerequisites: Surgery Core

Duration: One Month

Months Offered: July through June

**Goals:**
Increased knowledge and skills in the field of Head and Neck Surgery and in the care of Otolaryngology patients.

**Objectives:**
The student will:
- Perform accurate and thorough Head and Neck examination
- Become familiar with other modalities of head and neck evaluation including Radiology, Audiometrics and Endoscopy procedures
- Learn the principle of Head and Neck Surgery, facial plastic surgery, endoscopy and neurotology

**Activities:**
This clerkship is designed to familiarize the student with the diseases of ears, nose and throat with emphasis on diagnostic techniques, including physical examination techniques, radiology, audiometrics and endoscopy procedures. The student will be introduced to the principles of head and neck surgery, endoscopy and neurotology.

Not to exceed 80 hour work week. (Dr. Klippert).

**Assessment:**
Will include assessment of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Head and Neck and otolaryngology surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

**SURG 5252 Otolaryngology Off Campus or Regional Campus Experience**

Location: Provided at time of Registration

Enrollment: Open

Prerequisites: Surgery Core

**NE/NW/SE/SW students by arrangement through the regional campus coordinator and departmental approval.**

Duration: One Month

Months Offered: July through June

**Goals:**
Increased knowledge and skills in the field of Head and Neck Surgery and in the care of Otolaryngology patients.

**Objectives:**
The student will:
- Perform accurate and thorough Head and Neck examination
- Become familiar with other modalities of head and neck evaluation including Radiology, Audiometrics and Endoscopy procedures
- Learn the principle of Head and Neck Surgery, facial plastic surgery, endoscopy and neurotology

**Activities:**
Students may elect off campus experience in Otolaryngology at some other medical school or institution for a period of one to two months. For help in making arrangements, interested students should contact the Section of Otolaryngology here at the Medical College of Georgia. Arrangements then can be made with the counterpart at the other institution. An evaluation of the student’s performance will be required.

Not to exceed 80 hour work week. (Dr. David Terris)

**Assessment:**
Will include assessment of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Head and Neck and otolaryngology surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

**SURG 5253 Clerkship in Otolaryngology and Head and Neck Surgery**

Location: Memorial Medical Center

Savannah, GA

Enrollment: One per month

Prerequisites: Surgery Core

Duration: One Month

Months Offered: July through June

**Goals:**
Increased knowledge and skills in the field of Head and Neck Surgery and in the care of Otolaryngology patients.

**Objectives:**
The student will:
- Perform accurate and thorough Head and Neck examination
- Become familiar with other modalities of head and neck evaluation including Radiology, Audiometrics and Endoscopy procedures
- Learn the principle of Head and Neck Surgery, facial plastic surgery, endoscopy and neurotology

**Activities:**
This elective provides exposure to inpatient and outpatient otoneurology, otology, rhinology, aryngology and head and neck surgery. The student will be exposed to hospital consultations, emergency room call, and will be able to follow the patient from initial outpatient examination through the operating room and

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postoperative care, to discharge. Instructional videos and didactic lectures will be included in this comprehensive elective. Participation as above in all activities of the Otolaryngology Surgical service.

Not to exceed 80 hour work week

Assessment:
Will include assessment of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Head and Neck and otolaryngology surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

(Sirs. Michael Zoller, Fred L. Daniel, David S. Oliver, and Stephen L. Rashleigh) Arrangements should be made through the Department of Surgery, Medical College of Georgia and Dr. Michael Zoller, 5201 Frederick Street, Savannah, Georgia 31405(912) 351-3530.

SURG 5254 Advanced Clerkship in Otolaryngology and Neck Surgery
Location: GRMC
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Surgery Core and SURG 5250
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Otolaryngology and in the care of surgical patients.

Objectives:
The student will:
- Perform accurate and thorough history and physical on surgical inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation of preoperative and postoperative care of surgical patients
- Fully participate in all educational conferences
- Appropriately participate in patient procedures

Activities:
Students on this elective will function as substitute interns on the Otolaryngology Service at the Medical College of Georgia. The student will function as an integral part of that service. The student is expected to initiate the clinical data base, begin diagnostic measures, and where possible, perform surgical procedures with supervision. In addition, he/she will participate in the teaching responsibilities, conferences, clinics, and operating experiences of the service to which he/she is assigned and he/she will be assigned night call responsibilities. Participation a above in all activities of the surgical service.

Not to exceed 80 hour work week. (Dr. David Terris)

Assessment:
Will include assessment of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Head and Neck and otolaryngology surgical knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

8 hrs of lecture per week 16 clinical hrs per week
24 operating room hours per week
8 hours of ward work per week
No night call

Orthopedics

SURG 5275 Orthopedics Clerkship
Location: GRMC, VA Hospital, University (Designate location)
Enrollment: Minimum: 1 Maximum: 3
Prerequisites: Surgery Core
Duration: One Month
Months Offered: All year. July through October–Reserved for Students choosing Ortho as Advisor. November–June–Lottery

Goals:
Increased knowledge and skills in the field of Orthopedic Surgery and in the care of Orthopedics patients.

Objectives:
The student will:
- Perform accurate and thorough orthopedic examinations
- Become familiar with orthopedic diseases, diagnosis and procedures

Activities:
The student will fully participate in all inpatient and outpatient activities of his/her assigned service.

Not to exceed 80 hour work week.

Assessment:
Will include assessment of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Orthopedic surgical knowledge
- Ability to find and manage medical information.
- Appropriate level of technical ability.

Arrange through faculty Coordinator, Dr. Bertrand

SURG 5278 Orthopedics Off Campus Experience
Location: To be provided at the time of registration
Enrollment: Minimum: 1 Maximum: 2 per preceptor
Prerequisites: Surgery Core
*NE/NW/SE/SW students - Surgery Core and by arrangement through the regional campus coordinator and departmental approval.
Duration: One to Two Months
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Orthopedic Surgery and in the care of orthopedics patients.
Objectives: The student will:
- Learn the indications and methods of evaluation of orthopedic conditions
- Learn the diagnosis and proper management of acute and chronic trauma of an orthopedic nature to include fractures, dislocations and sprains
- Learn the problems of acute and chronic musculo-skeletal disease and congenital anomalies, their diagnosis and treatment.
- Learn proper interpretation of x-rays and diagnostic procedures
- Learn disability evaluation in regard to orthopedic conditions
- Assist in preoperative and postoperative care of orthopedic patients

Activities:
The student will fully participate in all inpatient and outpatient activities of his/her assigned service. Not to exceed 80 hour work week.

Assessment:
The preceptor will evaluate on the basis of performance, skill, knowledge and attitude. The degree of responsibility will be determined by student progress during the clerkship.

Dr. Sam Murray form Memorial Health University Medical Center, Savannah, Georgia has expressed interest in medical students participating in this preceptorship.

SURG 5292 Orthopedic Surgery Research
Location: GRMC, Surgical Research Laboratories, and approved sites in Georgia
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Phase 1, 2, Step 1
Duration: One to Two Months
Months Offered: July through June

Goals:
Increased knowledge, skill and appreciation in the field of surgical research.

Objectives:
The student will:
- Will gain research experience in Orthopedic Surgery.
- Participate in studies that are currently ongoing in the section or suggest a research proposal.

Activities:
Activities in the library, laboratory, etc. not to exceed 80 hour work week.

Assessment:
By the faculty supervisor will include evaluation of the effort and skills invested in the project and of the final report.

Arrangements should be made through Carlos Isales, M.D. Students must meet with Dr. Isales prior to the start of the elective to discuss the planned research project.

Primary Care Sports Medicine—see FMPC 5015

Pediatrics

SURG 5300 Pediatric Surgery
Location: Children’s Hospital of Georgia
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Surgery Core
Duration: One to Two Months
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Pediatric Surgery and in the care of pediatric surgical patients.

Objectives:
The student will:
- Perform accurate and thorough history and physical examination on pediatric surgical inpatients and outpatients.
- Participate with increasing responsibility under supervision in the evaluation and preoperative and postoperative care of pediatric surgical patients
- Fully participate in all educational conferences
- Appropriately participate in patient procedures

Activities:
This Pediatric Surgery Elective is designed to introduce the student to the fundamentals involved in the Clinical Care of the Pediatric Surgical patient. Participation as above in all activities of the Pediatric Surgical Service.

Hours not to exceed 80 hour work week.

Assessment:
Will include assessment of:
- Pediatric patient evaluation.
- Patient management abilities.
- Professionalism and patient interactions.
- Pediatric surgery knowledge.
- Ability to find and manage medical information
- Appropriate level of technical ability

Thoracic and Cardiac Surgery

SURG 5325 Thoracic and Cardiac Clerkship
Location: GRMC, VAMC
Enrollment: Maximum: 2 (VA 1, MCG 1)
Prerequisites: Phase 3 Core Curriculum
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skills and treatment of intrathoracic diseases.

Objectives:
The student will:
Perform accurate and thorough history and physical examinations on cardiothoracic inpatients and outpatients.
- Participate with increasing responsibility under supervision in the evaluation and preoperative and postoperative care of cardiothoracic surgery patients
- Fully participate in educational conferences
- Appropriately participate in patient procedures

Activities:
This elective is designed to provide additional experience in pathophysiology and treatment in cardiothoracic disease. The student participates with the chief resident and/or attending cardiothoracic surgeon in answering consultations regarding patients with potential thoracic surgical problems on other services. In addition, opportunities are available for experience in treatment of critically ill patients in the surgical intensive care unit. Responsibilities of the student are entirely separate from those taking the required subspecialty clerkship. (SUR5000). In addition the student participates in all conferences, rounds and clinics.

Hours not to exceed 80 hour work week.

Assessment:
Will include assessment of:
- Cardio-thoracic patient evaluation
- Patient management abilities
- Professionalism and patient interactions
- Cardiothoracic surgery knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

SURG 5326 Thoracic and Cardiac Surgery Preceptorship
Location: To be provided at time of registration
Enrollment: Maximum: 2
Prerequisites: SURG 5000 (to include rotation through Thoracic Surgery)
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skills and treatment of cardiothoracic diseases.

Objectives:
The student will:
- Perform accurate and thorough history and physical examination on cardiothoracic inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation and care of preoperative and postoperative patients
- Fully participate in all educational conferences
- Appropriately participate in patient procedures

Activities:
Arrangements may be made for a student to work with a private cardiothoracic surgeon off campus or at another medical school to provide the student with additional experience in this field. This will provide the student an opportunity to observe methods of treatment of patients in hospitals other than GRU Hospital.

Hours not to exceed 80 hour work week.

Assessment:
Will include assessment of:
- Cardio-thoracic patient evaluation
- Patient management abilities
- Professionalism and patient interactions
- Cardio thoracic surgery knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

Urology

SURG 5350 Urology Clerkship
Location: GRMC or VAMC, Augusta
Enrollment: GRMC Hospital–1 Minimum, 4 Maximum VAMC
Prerequisites: Surgery Core
Duration: One Month
Months Offered: July through June

Goals:
Increased knowledge and skills in the field of Urology Surgery and in the care of Urological Surgical patients.

Objectives:
The student will:
- Perform accurate and thorough history and physical examinations on Urology inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation and preoperative and postoperative care of Urology patients
- Fully participate in all educational conferences
- Appropriately participate in patient procedures

Activities:
A four week patient care elective in general urology which can be taken at GRU Hospital (Max 4 students) or Dwight David Eisenhower Army Medical Center, Fort Gordon Georgia (Max 2 students). Emphasis is on evaluation of urologic patient, both the inpatient and outpatient. Students have an opportunity to assist at cystoscopies and several operative procedures. Opportunity to learn proper technique for urethral dilatations, urethral catheterizations and prostatic evaluation is available. Students are assigned inpatients in rotation and perform histories and physical examinations upon them and then follow the patient daily, including preoperative, operative and postoperative care. Faculty, residents and students make ward rounds and review all urologic x rays daily. Informal conferences with faculty and/or residents are held covering such topics as G.U. malignancies, urolithiasis, prostatic disease, neurogenic bladder and complications of the catheter. (Dr. Ronald Lewis).

Hours not to exceed 80 hour work week.

Assessment:
Will include assessment of:
- Urology patient evaluation
- Patient management abilities
- Professionalism and patient interactions
- Urology knowledge
• Ability to find and manage medical information
• Appropriate level of technical ability

**SURG 5351 Urology Off Campus Experience**
Location: Provided at time of registration
Enrollment: Minimum: 1 Maximum: 3
Prerequisites: Surgery Core
Duration: One Month
Months Offered: July through June

**Goals:**
Increase knowledge and skills in the field of Urology and the care of Urological Surgery patients.

**Objectives:**
The student will:
- Perform accurate and thorough history and physical examinations on General Urology inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation and preoperative and postoperative care of Urology patients
- Fully participate in all educational conferences
- Appropriately participate in patient procedures

**Activities:**
This is a four week patient care off campus elective which can be taken with a qualified urologist anywhere. The course content should be about parallel to SUR 5350. (Dr. Ronald Lewis)

Hours not to exceed 80 hour work week.

**Assessment:**
Will include assessment of:
- Urology patient evaluation.
- Patient management abilities.
- Professionalism and patient interactions.
- Urology knowledge.
- Ability to find and manage medical information.
- Appropriate level of technical ability

**SURG 5352 Urologic Research**
Location: GRU
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: None
Duration: Four to Eight Weeks
Months Offered: July through June

**Goals:**
Increased knowledge, skill and appreciation in the field of surgical research

**Objectives:**
The student will gain research experience in urologic research, participate in studies that are currently ongoing.

**Activities:**
Activities in the clinic, lab, etc, not to exceed 80 hours work weeks.

**Assessment:**
By the faculty supervisor. Will include evaluation of the effort and skills in the project and of the final report. (Arrangements should be through Dr. Lewis and staff)

**SURG 5379 – Pediatric Urology 4th Year Elective**
Location: GRU Children’s Medical Center (CHOG)
Enrollment: 2 Max
Prerequisites: Surgery Core
Duration: 4 weeks
Months Offered: July through June

**Goals:**
Student should be well-versed in pediatric urology problems, diagnostic studies and surgical repair

**Objectives:**
To identify pediatric urology problems, evaluate and treat patients and learn surgical techniques

**Activities:**
Participate in clinic, urodynamics and operating room.

**Assessment:**
Students will be assessed by direct supervision in clinic and OR. Patient workups and surgical skills will be graded. Student will perform a 20 minute presentation on pediatric urologic problem.

**Plastic Surgery**

**SURG 5375 Plastic Reconstructive Surgery**
Location: GRMC
Enrollment: Minimum: 1 Maximum: 2
Prerequisites: Surgery Core
Duration: One Month
Months Offered: July through June

**Goals:**
Increased knowledge and skills in the field of Plastic Surgery and in the care of Plastic Surgery patients.

**Objectives:**
The student will:
- Perform accurate and thorough history and physical examinations on plastic surgery inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation and management of preoperative and postoperative plastic surgery patients
- Fully participate in all educations conferences.
- Appropriately participate in patient procedures

**Activities:**
Participation as above in all activities of the Plastic Surgical Service. This may include exposure to wound healing problems, repair of nerves, tendons, vessels, bone and clinical problems including tumors of the head and neck, injuries of the face and extremities, thermal burns, and congenital abnormalities. Not to exceed 80 hour work week.

**Assessment:**
Will include assessment of:
- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Plastic Surgery knowledge
- Ability to find and manage medical information
### SURG 5377 Plastic Surgery Memorial Medical Center or Regional Campuses

**Location:** Memorial Medical Ct., Savannah  
NE/NW/SE/SW regional campuses

**Enrollment:** Maximum: 6

**Prerequisites:** Surgery Core  
NE/NW/SE/SW students – Surgery Core and by arrangement through the regional campus coordinator and departmental approval.

**Duration:** One Month  
**Months Offered:** July through June

### Goals:

Increased knowledge and skills in the field of Plastic surgery and the care of Plastic Surgery patients.

### Objectives:

The student will:

- Perform accurate and thorough history and physical examination on Plastic Surgery inpatients and outpatients
- Participate with increasing responsibility under supervision in the evaluation and management of preoperative and postoperative plastic surgery patients
- Fully participate in all educations conferences
- Appropriately participate in patient procedures

### Activities:

Participation as above in all activities of the Plastic Surgical Service. This may include exposure to wound healing problems, repair of nerves, tendons, vessels, bone and clinical problems including tumors of the head and neck, injuries of the face and extremities, thermal burns, and congenital abnormalities.

Hours not to exceed 80 hour work week.

### Assessment:

Will include assessment of:

- Patient evaluation skills
- Patient management abilities
- Professionalism and patient interactions
- Plastic Surgery knowledge
- Ability to find and manage medical information
- Appropriate level of technical ability

Arrangement should be made through VSAS. If you need access to VSAS please contact the Curriculum Office at curriculum@gru.edu. Athens VSAS access is available through Rachel McDaniel at 706.713.2192. Leigh Anne Kirkland is the Memorial Hospital contact and she may be reached at (912-350-8076). SEA forms are required and need to be approved by the Surgery Coordinator and the regional campus coordinator if you are a residential student on the NE/NW/SE/SW campus.
<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>Coordinators/Phone</th>
<th>FAX #</th>
<th>BLDG RM#</th>
<th>DIRECTORS</th>
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<tbody>
<tr>
<td>ANESTHESIOLOGY</td>
<td>Susan Dawkins</td>
<td>4544</td>
<td>BIW 2144</td>
<td>Dr. Mary Arthur</td>
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<tr>
<td>DERMATOLOGY/MEDICINE</td>
<td>Dottie Zielinski</td>
<td>6228</td>
<td>FH 100</td>
<td>Dr. Loretta Davis</td>
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<tr>
<td>EMERGENCY MEDICINE</td>
<td>Swires, Maria</td>
<td>4412</td>
<td>AF 1016</td>
<td>Dr. Brad Reynolds</td>
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<tr>
<td>FAMILY MEDICINE</td>
<td>Dayna Seymore</td>
<td>4075</td>
<td>HB 3035</td>
<td>Dr. David Kriegel</td>
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<tr>
<td>MEDICINE</td>
<td>Lizandrea Jones</td>
<td>2055</td>
<td>BIW 5072</td>
<td>Dr. Pamela Fail</td>
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<tr>
<td>AMBULATORY MEDICINE</td>
<td>Lizandrea Jones</td>
<td>2055</td>
<td>BIW 5072</td>
<td>Dr. Pamela Fall</td>
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<tr>
<td>NEUROLOGY</td>
<td>Lauren Watkins</td>
<td>1886</td>
<td>BA -3514</td>
<td>Dr. J. Ned Pruitt</td>
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<tr>
<td>OBSTETRICS/GYNECOLOGY</td>
<td>Yvonne Booker</td>
<td>2543</td>
<td>BA 7300</td>
<td>Dr. Erin Latif</td>
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<tr>
<td>OPHTHALMOLOGY</td>
<td>Kimberly Garrett</td>
<td>6175</td>
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<td>Dr. David Bogorad</td>
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<tr>
<td>PATHOLOGY</td>
<td>Courtney Sahm</td>
<td>2897</td>
<td>Gb 3300</td>
<td>Dr. Barbara Russell</td>
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<tr>
<td>PEDIATRICS</td>
<td>Kimberly Curtis</td>
<td>3781</td>
<td>BG 2101B</td>
<td>Dr. Lisa Leggio</td>
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<tr>
<td>PSYCHIATRY</td>
<td>Erin Rakestraw</td>
<td>6717</td>
<td>EG-3004</td>
<td>Dr. Adriana Foster</td>
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<tr>
<td>MEDI 6000 (Psychiatry)</td>
<td>Krystal Johnson</td>
<td>3084</td>
<td>EG-2021-10</td>
<td>Dr. Christian Lemmon</td>
</tr>
<tr>
<td>RADIOLOGY</td>
<td>Fran Wolff/Jim Corley</td>
<td>2076/8677</td>
<td>0116</td>
<td>Dr. Clarence Joe</td>
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<tr>
<td>RADIATION ONCOLOGY</td>
<td>Aimee Barton</td>
<td>2971</td>
<td>HK 123</td>
<td>Dr. Feng-Ming Kong</td>
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<tr>
<td>SURGERY:</td>
<td>Shannon Black</td>
<td>4143</td>
<td>BI 4070</td>
<td>Dr. Robert Nesbit</td>
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<tr>
<td>Ear, Nose, Throat (ENT)</td>
<td>Admin Contact: Ellie Pryor, 1-6100</td>
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<tr>
<td>Neurosurgery</td>
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<tr>
<td>Orthopedics</td>
<td>Residency Prog Coord: Shannon Williford</td>
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<tr>
<td>Pediatric Surgery</td>
<td>Admin Contact: Kathy Jaques, 1-3941</td>
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<td>Plastic Surgery</td>
<td>Admin Contact: Donna Scott, 1-6945</td>
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<tr>
<td>Thoracic Surgery</td>
<td>Admin Contact: Bridget Wilson, 1-3226</td>
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<td>Urology</td>
<td>Residency Prog Spec: Kim Maddox, 1-2519</td>
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<tr>
<td>Pharmacology</td>
<td>Wendy Fava</td>
<td>3384</td>
<td>CB-3623</td>
<td>Dr. R. William Caldwell</td>
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</table>
# Phase 3 Rotation Schedule 2015-2016

<table>
<thead>
<tr>
<th>Clinical Skills (Class of 2017)</th>
<th>Begins</th>
<th>Ends</th>
<th>Weeks</th>
<th>Drop/Add Deadline*</th>
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<tbody>
<tr>
<td>July Rotation</td>
<td>June 29 - July 2, 2015</td>
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<tr>
<td>August Rotation</td>
<td>July 6 - August 2, 2015</td>
<td>August 3 - August 30, 2015</td>
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<td>June 12, 2015</td>
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<tr>
<td>September Rotation</td>
<td>August 31 - September 27, 2015</td>
<td>September 28 - October 25, 2015</td>
<td>4</td>
<td>July 10, 2015</td>
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<tr>
<td>October Rotation</td>
<td>September 28 - October 25, 2015</td>
<td>October 31 - November 22, 2015</td>
<td>4</td>
<td>Aug 7, 2015</td>
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<tr>
<td>Thanksgiving Holidays for All Students</td>
<td>November 26 - November 29, 2015</td>
<td>November 30 - December 18, 2015</td>
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<td>Oct 30, 2015</td>
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<table>
<thead>
<tr>
<th>Christmas Holidays for Phase III Students</th>
<th>Begins</th>
<th>Ends</th>
<th>Weeks</th>
<th>Drop/Add Deadline*</th>
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<tr>
<td>January Rotation</td>
<td>January 4 - January 31, 2015</td>
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<tr>
<td>February Rotation</td>
<td>February 1 - February 28, 2015</td>
<td>February 29 - March 27, 2015</td>
<td>4</td>
<td>Jan 8, 2016</td>
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<td>March Rotation</td>
<td>February 29 - March 27, 2015</td>
<td>March 28 - April 1, 2015</td>
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<td>Feb 5, 2016</td>
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<td>April Rotation</td>
<td>March 28 - April 1, 2015</td>
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<tr>
<th>Spring Holidays for All Students</th>
<th>Begins</th>
<th>Ends</th>
<th>Weeks</th>
<th>Drop/Add Deadline*</th>
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<tbody>
<tr>
<td>Return for April</td>
<td>April 11 - May 1, 2016</td>
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<td>May Rotation</td>
<td>May 2 - May 29, 2016</td>
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<td>Apr 8, 2016</td>
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<tr>
<td>June Rotation</td>
<td>May 30 - June 26, 2016</td>
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<td>May 6, 2016</td>
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</table>

| Graduation: May 6, 2016 |
|-------------------------|-----------------|-------|---------------------|

6-Week Rotation Dates:

1. 07/06/15 - 08/16/15
2. 08/17/15 - 09/27/15
3. 09/28/15 - 11/08/15
4. 11/09/15 - 12/18/15
5. 01/04/16 - 02/14/16
6. 02/15/16 - 03/27/16
7. 03/28/16 - 05/15/16
8. 05/16/16 - 06/26/16

*The last official deadline for dropping is three weeks before the elective begins. All dropping and adding is done through the Curriculum Office.

If a student withdraws from a scheduled elective, with special permission after the last scheduled drop date, the elective will appear on their official transcript with the designation “W” (withdrew). The student will not be allowed to enroll in another elective for credit during this period.

This schedule is subject to change.