MERCER UNIVERSITY SCHOOL OF MEDICINE

MISSION

To educate physicians and health professionals to meet the primary care and health care needs of rural and medically underserved areas of Georgia.

CORE MISSION AREAS

TEACHING – Excellence in educational programs that graduate caring, compassionate, competent health professionals.

SCHOLARLY ACTIVITY/RESEARCH – Discovering new knowledge, integrating to improve the health status of Georgians.

CLINICAL CARE – Providing high quality, patient-centered, cost effective health care services.

COMMUNITY SERVICE – Reaching out and partnering with neighborhoods and communities.

CORE VALUES

COLLABORATION – Working together and respecting each other’s contributions.

COMPASSION – Showing empathy and concern for the well-being of others.

COMPETENCE – Demonstrating mastery of skills of one’s profession or vocation.

EXCELLENCE – Performing at the highest level and exceeding the expectations of those we serve.

INTEGRITY – Unwavering adherence to a professional and ethical code of conduct.

RESPECT AND HONESTY – Conducting ourselves in a manner that demonstrates the value of each individual.

SERVICE – Offering our talents and skills toward betterment of our communities.

VISION

To improve access to quality health care and enhance the health status of Georgia residents and be a recognized leader in educating primary care, rural and community-based health professionals.

~ Endorsed by MUSM Board of Governors, November 15, 2002
MISSION AND GOALS FOR THE SENIOR YEAR
MERCER UNIVERSITY SCHOOL OF MEDICINE

MISSION

Prepare students for entry into clinical practice through required and elective experiences which facilitate reflection on career goals and choice and enhancement of skills in patient assessment, evaluation and treatment. The fourth year should provide students with a broad-based, rather than specialized, medical education.

VISION

The fourth year programs are planned as a mix of elective rotations, time for interview and reflection, and demanding clinical rotations which will enhance the confidence and competence of the student in preparation for entering clinical practice.

GOALS

1. The program will prepare students to confidently and competently assess patients with undifferentiated disease, identify their problems, design a plan for diagnosis and treatment and communicate findings to the patient.

2. The program will assist students in selecting their career focus and identifying programs which match goals.

3. The program will facilitate student understanding of the role of the physician in patient care and health of the community.

4. The program will prepare students for entry into clinical training programs.

5. The program will base learning objectives on MUSM curricular competencies.
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Reference and Circulation Desk .......................................................... 478-301-4056
Learning Resources Center ................................................................. 478-301-4149

MCCG Health Sciences Learning Resource Center
Reference Desk .............................................................................. 478-633-1639

MCCG Beeper System
In-hospital ......................................................................... X6262 then enter beeper number
Out-of-hospital ........................................................................ 478-633-2002 then enter beeper number

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FAX ...... 912-350-8685

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Security Office ................................................................. 912-350-8600

Medical Student Lounge ................................................................. 912-350-8458
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MUMC Beeper System
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Out-of-hospital................................................................. 912-350-8434 then enter beeper number
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Clerkship Coordinator – Katie Kowalkiewicz ................................. 912-350-5900
Senior Requirements – 34 Weeks

1. **Community Medicine Year 4 Visit** 4 Weeks

2. **Selective Courses** 8 Weeks
   Students are required to select two (2) courses out of three (3) eligible courses that are designated as Selective Courses. These include **Critical Care, Emergency Medicine, and Geriatrics and Palliative Medicine**. Each course is four (4) weeks in length.

   The Critical Care selective requirement can be met on the Macon Campus through the Medical Critical Care, Surgical Critical Care, Cardiovascular Critical Care, Pediatric Critical Care, or a Neonatal Critical Care (limited availability). The Savannah Campus offers Medical Critical Care, Surgical Critical Care, and Pediatric Critical Care.

   The Geriatrics and Palliative Medicine selective can be met on the Macon Campus only.

   The Emergency Medicine selective can be met at any Medical Center that has an Emergency Medicine Residency or at any LCME accredited Medical School that has a primary teaching hospital.

   Students who wish to take all three (3) selectives may do so by designating the third selective as an elective or may use vacation time.

   See full description of each selective in the Selective Section.

3. **Sub‐Internship** (Can be AWAY rotation) 4 Weeks

4. **Capstone Course** 1 Week

5. **Elective Courses** 17 Weeks
   Students are required to complete a minimum of 17 weeks of elective courses for credit. At least four (4) weeks of electives must be MUSM-sponsored electives.

   Students must complete a minimum of 8 weeks of elective courses that have significant patient contact/patient care responsibilities (PCR). PCR is defined as over half of the elective time is spent in direct patient care. These are designated in the catalog as **Patient Care Responsibility**, or **PCR**.

   No more than eight (8) weeks of elective time may be taken (for credit) in any one subspecialty. Up to an additional four (4) weeks of approved elective time may be taken through the use of vacation time for a total of 12 weeks in any one subspecialty, and an overall total of 21 weeks of elective time. The course preceptor, student’s advisor and Associate Dean of Academic Affairs or Year IV Program Director or Assistant Program Director must approve all elective choices.

6. **Medical Ethics**
   **Senior Paper** – A paper (approximately five (5) pages) analyzing a single case from an ethical perspective. See full description in Medical Ethics section.

7. **Procedural Skills**
   Completion of all required procedures for clinical clerks. Most should be completed by end of Third Year, but all must be completed by the end of the Fourth Year.

8. **Vacation/Interview and Discretionary Time** 8 Weeks
   Students have eight (8) weeks’ vacation/discretionary time they may schedule during the year. If you choose not to take electives over the MUSM designated Christmas Break, you are required to use time from your eight (8) week allotment of vacation/discretionary time.
General Policies

1. All courses and electives are subject to approval in the following order:
   - By the Clinical Medical Education Coordinator
   - By the student’s advisor
   - By either the Associate Dean of Academic Affairs, the Assistant Dean of Academic Affairs, or the Y4 Committee Chair

2. All Student Generated Electives (SGE) are subject to:
   - Approval by the Year IV Program Director or Asst Program Director or Assoc Dean of Academic Affairs.
   - Approval by the Year IV Subcommittee

3. All Electives outside of the United States are subject to:
   - Approval by the Year IV Subcommittee and Curriculum Committee

4. Whenever a student is engaged in an approved elective, the MUSM malpractice liability insurance program protects both the student and the elective preceptor. Information on this program is available through the Registrar’s office.

5. MUSM will assume no responsibility for arranging or financing student lodging, travel, or tuition requirements at other medical education institutions.

6. If a student is not registered for an elective, he/she will not receive credit for it, even if the student had the preceptor’s approval and has completed the course requirements.

7. All schedule changes must be completed at least four weeks prior to the start of the elective course. The Change of Schedule Form must be used to both drop and add courses and should be returned to the Clinical Medical Education Coordinator once all signatures have been obtained.

8. If circumstances prevent a student from completing a scheduled elective, he/she will be required to make up the elective time or receive an unsatisfactory grade for the elective. The student must send a written explanation of withdrawal to the Department Chairman with copies to the Associate Dean of Academic Affairs.

9. In order to maintain credibility of MUSM students at external sites, MUSM students must have a history of honoring their commitments. Therefore, electives, not directly supervised by our faculty, may not be dropped once final arrangements have been made except with the written permission of both the external institution and the MUSM sponsoring department.

10. Taking time off from curricular activities for interviews is not recommended. However, in recognition that interviews in some specialties and at some locations can be difficult to arrange, the following guidelines are in effect:
    - Time off for interviews will be at the discretion of the preceptor. Please check with the preceptor for your rotation prior to arranging your interview schedule.
    - Time off will be limited to no more than 2 days for 2 week experiences, and 3 days for 4 week experiences. **The total time off for interviews shall not exceed 6 days for the year.**
    - No time off can be taken during Emergency Medicine. However, interviews may be conducted while on Emergency Medicine during the regularly scheduled off-duty days.
    - No time off can be taken during Community Medicine without the approval of the Community Medicine Program Director.
Remediation Policy

Students are required to complete a four (4) week Community Medicine rotation and eight (8) weeks of “selectives” to be chosen from Emergency Medicine, Critical Care, or Geriatric and Palliative Medicine. If the student should fail one of these rotations, the remediation should be no different than if they were to fail another component of the curriculum. They will have to redo the failed rotation or portion deemed unsatisfactory. The exact conditions of the remediation would be the responsibility of the attending of service.

If a student fails an “elective”, they may remediate the same, or choose to take a new elective for an equal period of time. Should they choose a new elective, the original “failed” elective will remain as “failed” on their transcript.

Selecting & Scheduling Electives

Students may choose electives which are:

1. **MUSM-sponsored electives** – (listed in this electives catalog).
2. **Non-MUSM Electives** – (outside electives; electives from other US/Canadian LCME medical education facilities).
3. **Foreign electives** – (electives at a foreign medical education facility).
4. **Student-generated elective (SGE)** – (an elective created with the aid of a preceptor and MUSM-sponsoring department to meet a specific educational need).

The student’s advisor and the Associate Dean of Academic Affairs, the Year IV Program Director, or Assistant Program Director must approve all elective choices. Student-generated electives require additional approvals by the 4th Year Subcommittee.

MUSM students may register for elective courses for their fourth year beginning in early March of their third year. The following timeline must be **strictly adhered to** when scheduling electives:

1. **MUSM electives** – must be scheduled **at least 4 weeks prior** to the start of the elective.
2. **Non-MUSM Electives** (Outside electives) – must be scheduled with all approvals **at least 8 weeks prior** to the start of the elective.
3. **Foreign electives** – must be scheduled with all approvals **at least 3 months prior** to the start of the elective.
4. **Student-generated electives (SGE)** – must be scheduled with all approvals **at least 8 weeks prior** to the start of the elective.
Elective Application Sequence

1. **MUSM-Sponsored Electives**

   A. Contact the Medical Student Coordinator’s Office to determine if the elective is available. The final course selections must be approved by the course preceptor(s) or department clerkship coordinator(s) and the student’s advisor before being returned to the Coordinator’s office.

   B. The Coordinator will obtain permission from the Associate Dean of Academic Affairs, Year IV Program Director, or Assistant Program Director, notify Department Clerkship Director, and confirm elective with student.

   C. **Four weeks of electives must be scheduled within the MUSM system.**

2. **Non-MUSM (Outside) & Foreign Electives**

   A. Contact academic centers where the elective is offered to apply for the elective.

   B. In order to receive/send your MUSM transcripts, you must send a written request to the Registrar’s office.

   C. Once you have been accepted for the elective, submit the following documents to your Medical Student Coordinator; a course description from the host institution, letter of acceptance from the host institution; and a completed Non-MUSM Clinical Elective Request Form (Appendix D) signed by student and student’s advisor.

   D. The student’s advisor and the Associate Dean of Academic Affairs or the Year IV Program Director or Assistant Program Direct must approve all Non-MUSM elective choices.

   E. Students who are not proceeding satisfactorily in other clerkships or electives will not be permitted to take electives away from the MUSM system. Students must be in good academic standing.

   F. Requests for foreign electives must be submitted at least six months prior to the start of the elective experience.

   G. Any student denied approval will be provided with the reasons for the decision upon request. He/she may then request a meeting with the Year IV Program Director or Assistant Program Director for the purpose of reconsidering the decision.

   H. Further appeals may be directed to the Year IV Subcommittee, then to the Curriculum Committee and ultimately to the Dean of the School of Medicine.

   I. In order to maintain credibility of MUSM students at external sites, MUSM students must have a history of honoring their commitments. Therefore, electives not directly supervised by our faculty may not be dropped once final arrangements have been made except with the written permission of both the external institution and the MUSM sponsoring department.
3. **Student-Generated Electives (SGE)**

   A. Student-generated electives are designed by the student to meet specific educational needs for which there are not suitable existing alternatives.

   B. Student must submit to the Medical Student Coordinator a complete description of the experience including: preceptor, objectives of the course, course description, and method of evaluation; if the preceptor is not a MUSM faculty member, the student must identify a local MUSM faculty member who will endorse the elective and verify appropriateness of the experience and evaluation. A Student Generated Electives Request form (Appendix C) must be completed for submission to the Year IV Program Committee.

   C. The Year IV Program Committee must approve all student generated electives; therefore **all information must be received at least eight weeks prior to the start date of the elective experience.** Except in extenuating circumstances (to be agreed upon by both the clinical medical education coordinator and 4th year director) **failure to meet this time requirement will result in no consideration for request.**

4. **Schedule Changes**

   Changes can be made to senior schedules **up to 30 days before the beginning of a course** as long as the new course has an available slot. Except in extenuating circumstances, **failure to meet this 30 day requirement will result in inability to make requested change to schedule.** Students must complete the MUSM Change of Schedule Form (Appendix A) and obtain their Advisor’s signature prior to submitting the form.

5. **Evaluations - “Important Notice”**

   In order for you to receive credit for an elective, MUSM must receive a completed evaluation form (Appendix B) from the preceptor. **It is the student’s responsibility to provide an evaluation form to the preceptor for all electives.** Students are also requested to remind the preceptor near or at the end of the elective to complete and mail the evaluation form.
Guidelines for Visiting Medical Students

Eligible students are limited to a maximum of eight weeks of electives. Visiting students will be charged an application fee of $75.00. Visiting students will not be permitted to complete electives after Match Day of the current academic year. Accepted students are responsible for securing their own housing. Questions may be directed to the student coordinator at the requested site:

   Macon Campus: Clinical Medical Education Coordinator .................. 478-633-1063
   Savannah Campus: Medical Student Program Director ..................... 912-350-8076

LCME Accredited Medical School Visiting Process

Mercer University School of Medicine will be using VSAS, the Visiting Student Application Service, to receive visiting student applications for the 2011-2012 academic year. Applications may be submitted through VSAS beginning May 1, 2011. To apply to our school, students will need to complete and send a VSAS application for the preferred electives and dates. For more information on VSAS, please visit www.aamc.org/vsas, http://www.aamc.org/vsas or contact VSAS at vsas@aamc.org mailto:vsas@aamc.org or 202-478-9878.

AOA Accredited Osteopathic Medical School Visiting Student Process

Visiting medical student applications will not be accepted until May 1st of the school year the student wishes to attend. Applications will not be reviewed unless they are complete; incomplete applications will be returned to the student.

1. The student must be currently enrolled at an LCME or CACMS accredited Allopathic Medical School, or an AOA accredited Osteopathic Medicine School. The host Medical Facility for the Macon Campus does not accept foreign medical students.

2. The student must be currently enrolled, in good standing, and in his/her final year of medical school.

3. The student must provide proof that he/she has taken and passed the USMLE Step I exam or its equivalent.

4. The student must provide proof that he/she has successfully completed all prerequisites for the course(s) he/she is applying to for admission.

5. The student must provide proof that his/her school’s malpractice insurance will cover him/her while visiting our institutions.

6. To complete an elective on the Macon Campus, the student must provide results of a background check within the past two years and 10 panel drug screen completed within 30 days prior to the beginning the elective.

7. To complete an elective on the Savannah Campus, students must have a background check and drug screen completed by hospital approved agencies, Please call Savannah student program coordinator for details 912-350-8076.
8. The student must provide proof that he/she is current on all required immunizations (see list of immunization requirements below) including a TB skin test within the preceding 6 months.

9. The student must complete hospital specific mandatory training on infection control, HIPAA, Cultural Diversity and Code of Business Practice.

10. The student must provide proof that his/her health care insurance covers the student while at our institution and that the policy provides for repatriation in the event of serious illness or death.
Faculty Information

~Important Notice~

In order for the student to receive credit for an elective, MUSM must receive a completed evaluation form (Appendix) from the preceptor. It is the student’s responsibility to provide an evaluation form to the preceptor for all electives. Students are also requested to remind the preceptor near or at the end of the elective to complete and mail the evaluation form.

Elective Information for Faculty and Preceptors

The following criteria are used to designate a proposed course as an Approved Elective in the MUSM system:

1. The experience must be intellectually rigorous and challenging to Year IV students, as judged by the appropriate MUSM departmental faculty.

2. The experience must have specified learning objectives concerning knowledge, skills, and attitudes; and these must be consistent with the aforementioned mission of the School of Medicine and the general goals of the Year IV electives.

3. The experience must be supervised by an elective preceptor who meets the following criteria:
   - Available and willing to provide supervision and instruction.
   - Holds a current appointment to the faculty of MUSM (waived for away electives taken at LCME accredited medical schools and ACGME accredited residency training programs).
   - Assumes responsibility for the student while engaged in elective activities.
   - Agrees to provide timely evaluation of the student’s performance.

4. The experience must have specified evaluation criteria.

5. Each department will review experiences proposed for electives and submit the proposed elective to the CIC for approval.

Notification of Preceptors and Faculty

Academic and Clinical Departments:

The Clinical Medical Education Coordinator will notify the Clerkship Directors, Clerkship Coordinators, or Department Chairmen monthly of the scheduled electives in their department and all changes. The department designee will be responsible for notifying the affected involved of the changes in the schedule.

Other Preceptors:

The Clinical Medical Education Coordinator will notify the preceptor or designated contact person as soon as possible of any scheduled electives and changes, with the intent of providing at least four weeks’ notice when possible.
Holidays & Important Dates

MUSM Holidays: Class of 2013

Independence Day  Wednesday, July 4, 2012
Labor Day  Monday, September 3, 2012
Thanksgiving  Thursday, November 22, 2012
  Friday, November 23, 2012
*Christmas Day  Tuesday, December 25, 2012
*New Year’s Day  Tuesday, January 1, 2012
**Martin Luther King, Jr., Day  Monday, January 21, 2013
**Good Friday  Friday, March 29, 2013

Important Dates:

1st Day of Year IV  July 9, 2012
Rank Order List Deadline  February 22, 2013
“Match Day”  March 15, 2013
Approved associated Match Day activities  TBA
Graduation Day  Campus Specific TBA

*If you choose not to take electives over the MUSM designated Christmas Break, you are required to use time from your eight (8) week allotment of vacation/discretionary time.

**If you are on an AWAY rotation or working with community medicine preceptor, the student is to follow the holiday schedule of the host institution or preceptor. These are not guaranteed days off.
MEDICAL ETHICS
Medical Ethics

A paper is required of all fourth year students, due by 5PM on March 1st of their senior year. The intent of the paper is to have students research a topic in medical ethics of personal interest, perhaps related to the specialty in which they are applying. Papers should case-based, and should focus on a relatively small area so that it can be discussed in approximately five pages, with references. Grading will be on a pass-fail basis. No prior approval of topics is required, but Dr. Elliott or Dr. Greenberg may be contacted for advice.

Papers from previous years have included such topics as transfusing Jehovah's Witnesses, protecting sexual partners of patients infected with HIV, conflicts among surrogate decision-makers, protecting confidentiality in adolescent patients, and providing access to care among the poor.

Not required, but highly recommended, is a case analysis following the organization of the form used in the first year.

Macon - Papers should be emailed to Dr. Elliott at elliott_rl@mercer.edu. Please contact Dr. Elliott if there are any questions.

Savannah – Papers should be emailed to both Dr. Greenberg and Dr. Elliott. Please contact Dr. Greenberg if there are any questions.

Fourth Year Requirements and Outstanding Papers

Interesting reading

Sokol. Time to get streetwise: why medical ethics is in need of doctors. BMJ 2006; 333:1226 http://www.bmj.com/cgi/content/full/333/7580/1226

Contact Information:

- Richard L. Elliott, MD, PhD
  Professor – Macon Campus
  Elliott_rl@mercer.edu
  Medical Ethics Program
  Phone: 478-301-2435

- Martin Greenberg, MD
  Savannah Campus
  Greenberg_mh@mercer.edu
  Phone: 912-350-1700

- Pamela Noble, Secretary
  Phone: 478-301-4047
COMMUNITY MEDICINE
Required Community Medicine Rotation 4 Weeks

CLK999.M04
DURATION: 4 weeks only
ENROLLMENT: Maximum 1 student/site
VISITING STUDENTS: No


Prerequisite: Successful completion of all third year clerkships
Faculty: Mercer University School of Medicine Community Preceptors
Report: Selected rural and/or medically underserved sites in Georgia.
Contact: Department of Community Medicine
          Gail Sheffield – Sheffield_lg@mercer.edu or 478-301-4053
          Dr. McKinley Thomas 912-350-1736 or Thomas_bm@mercer.edu

DESCRIPTION:
This required rotation completes the student’s work in the Community Medicine Program that began in the chosen site during the first year of medical school. The rotation enables the student to further integrate curricular components in Community Medicine, Basic Sciences, Medical Ethics, and Clinical Training in a community-based, ambulatory site. Under the supervision of the preceptor, the student will actively participate in community and clinical medicine in an environment that has become familiar by virtue of the previous rotations in the community. The student will participate fully with the preceptor in a wide variety of practice responsibilities in the office and/or community related settings.

OBJECTIVES:
➢ To complete a practice management project that evaluates the community as a potential practice or to complete a population health project of the student’s choosing
➢ Provide clinical care to community-based preceptor’s patients
➢ Continue the observation, analysis, and follow-up of two families
➢ Further develop the medical practice and community relationships established in the Year and Year 4 Visits
➢ To deliver a presentation in a community setting

EVALUATION:
Satisfactory completion (70%) of two family assessments and the community project is required. The preceptor’s evaluation of the student will include assessment in the following domains: professionalism, patient care, medical knowledge, practice-based improvement, communication skills, and systems-based practice. A satisfactory evaluation by the community-based preceptor will be required. Specific patient encounters related to community medicine will be required and documented in New Innovations.
SELECTIVE COURSES
Selective Courses  8 Weeks

Each course is four (4) weeks in length.

There are three (3) eligible selective course types. Students are required to select two (2) out of the three (3) eligible courses:

- Critical Care
- Emergency Medicine
- Geriatrics and Palliative Medicine

The Critical Care selective requirement can be met by selecting one of the following:

**Macon Campus:**
CLK910.M04 ICU Medical Critical Care Unit
CLK910.M08 STICU Surgical Trauma Critical Care
CLK910.M09 CVICU Cardiovascular Critical Care
CLK910.M05 PICU Pediatric Critical Care
CLK910.M05 NICU Neonatal Critical Care (limited availability)

**Savannah Campus:**
CLK910.S04 Medical Critical Care
CLK910.S08 Surgical Critical Care
CLK910.S05 Pediatric Critical Care

CLK914.M04/S04 Emergency Medicine selective can be met at any Medical Center that has an Emergency Medicine Residency or at any LCME accredited Medical School that has a primary teaching hospital.

CLK926.M04 Geriatrics and Palliative Medicine selective can be met on the Macon Campus only.

Students who wish to take all three (3) course types may do so by designating the third choice as an elective or may use vacation time. Below are the respective elective codes.

- INM.M22 Medical Critical Care Elective
- SUR.M22 Surgical Trauma Critical Care Elective
- INM.M18 Cardiovascular Critical Care Elective
- PED.M08 Pediatric Critical Care Elective
- PED.M03 Neonatal Critical Care Elective
- FAM.M05 Geriatric & Palliative Medicine Elective
- EME.M01 Emergency Medicine Elective
Rotations Block Schedule
Class of 2012-2013
  Critical Care,
  Emergency Medicine,
  Geriatric & Palliative Medicine (Macon Only),
  Radiology (Savannah Only)

- For each **Critical Care** rotation:
  - Macon has 2 Medicine ICU slots; 1 PICU; 1 NICU*; 2 CVICU & 3 STICU slots;
  - Savannah has 2 Medicine ICU slots; 1 PICU; and 2 Surgical ICU slots.

- For each **Emergency Medicine** rotation:
  - Macon has 5 available slots;
  - Savannah has 4 available slots.

- Macon Only: each **Geriatric & Palliative Medicine** rotation has 4 slots.

- Savannah Only: each **Radiology** rotation has 3 available slots.

**Rotation 1 (Savannah: Radiology blocked during this period)**
July 30-August 24

**Rotation 2**
August 27-September 21

**Rotation 3**
September 24-October 19

**Rotation 4**
October 22-November 16

**Rotation 5**
November 19-December 14

**Rotation 6 (All ICU rotations are blocked during this period)**
December 17-January 11

**Rotation 7**
January 14-February 18

**Rotation 8**
February 11-March 8

**Rotation 9**
March 11-April 5  *Limited NICU times
Critical Care/Intensive Care Unit Experience (Internal Medicine)

CLK910.M04
CLK910.S04
Duration: 4 weeks
Enrollment Maximum: 2 students

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Doug Farman, MD/Bill Terry, MD
Savannah - James Ramage, MD/Stephen Morris, MD/Carlton Kemp, MD/Igor Aksenov, MD

Contact:
Macon - Dr. Farman, M.D., 478-957-7973 or pager 478-749-5553
Savannah - Genie Faircloth, RN 912-350-4750

Course Goal:
To provide fourth year medical students an understanding of the unique aspects of critical care medicine provided in the intensive care unit setting and provide an opportunity for learning about critical care medicine through active participation in patient care in the intensive care unit setting.

Description:
The student will spend 4 weeks participating in the care of patients with the intensive care unit team. Students will evaluate patients, construct detailed care notes, develop comprehensive potential treatment plans, communicate with other members of the interdisciplinary care team, and discuss care plans with attending physicians on a daily basis. Each student will be expected to longitudinally follow assigned patients as well as participate in the care of other patients on the team as requested. Students will be involved with and/or aware of the unique psychosocial and ethical issues that critical illness creates for their patients and their patients’ families. Students may participate in procedural training under the direct supervision of the faculty when appropriate.

Faculty will provide teaching through informal bedside discussion, patient care rounds, and more formal sessions. Subjects will include pathophysiology of critical illness, diagnostics, therapeutics, differential diagnosis, acute care topics, ethical issues, nutrition, and other patient management topics germane to critical care medicine.

Objectives:
After this rotation, students will be able to:
- Outline the indications and criteria for admission to and transfer from an intensive care unit
- Actively and appropriately participate in the care of critically ill patients in an ICU setting that emphasizes a multidisciplinary team approach to patient care and values the contribution of all those participating in care of the patient
- Manage ICU patient airways appropriately and provide adequate respiratory support
INM ICU Objectives (Cont'd)

- Recognize and treat life-threatening conditions common in the ICU setting
- Provide appropriate fluid and electrolyte therapy for the critically ill ICU patient
- Provide appropriate nutritional support for the critically ill ICU patient
- Recognize and treat hemodynamic instability in the critically ill ICU patient
- Recognize the psychological aspects of critical care and critical illness on ICU patients and their families and tailor the care they provide appropriately
- Summarize the most common ethical issues involved in critical care medicine including patient autonomy, consent, end of life care, and withdrawal of care
- Participate appropriately in patient procedures performed in the intensive care setting under the direct supervision of the teaching faculty
- Accurately explain the pathophysiology associated with conditions and problems of patients commonly encountered in the intensive care unit.

Duty hours:
Macon: 8AM- 4:30PM, Monday – Friday (subject to change depending on patient load, acuity, and other obligations of the attending and team);
Savannah: 7AM – 5PM, Monday - Friday

Call:
Macon: None required – available if requested by student.
Savannah: Call is one day each week to include one weekend day/night per month.

Expectations:
Report on time. Be available for rounds, admissions, procedures throughout the day.
- Write a daily detailed progress note on each assigned patient
- Present patients to attending and team
- Attend didactic sessions
- Complete assigned readings

Critical Care Medicine Procedure List:
Students may have the opportunity to perform the following procedures under faculty supervision. Procedure availability will be highly dependent on patient load, pathology, and team composition.

- Central venous catheter placement
- Endotracheal intubations
- Arterial blood gas specimen collection
- Enteral feeding tube placement
- Arterial catheter placement
- Mechanical ventilator management
- Total parenteral nutrition management
- Thoracentesis
- Paracentesis

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
II. Surgical (STICU) Critical Care/Intensive Care Unit Experience

CLK910.M08
CLK910.S08

Duration: 4 weeks
Enrollment: Macon 3 students, Savannah 2 students

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Course Director: Dennis W. Ashley, M.D.
Savannah - Course Director: M. Gage Ochsner, M.D.

Contact:
Macon – Ginny Land 478-633-1199
Savannah - Linsey McDougal 912-350-5902

Course Goal:
To provide fourth year medical students an understanding of the unique aspects of critical care medicine provided in the intensive care unit setting and provide an opportunity for learning about critical care medicine through active participation in patient care in the intensive care unit setting.

Description:
This rotation gives the student exposure to the acutely ill patient in the intensive care unit. The student will have an opportunity to manage one to two patients with the surgical critical care team. The team usually consists of medical students, residents and an attending critical care physician. Students will be exposed to a wide array of critical illness and will have the opportunity to manage respiratory failure with ventilator management, cardiac failure, etc. Students will also have the opportunity to assist with multiple procedures that are commonly performed in the intensive care unit. Students are expected to present their patients on rounds and then attend daily teaching conferences.

Objectives:
After this rotation, students will be able to:
- Outline the indications and criteria for admission to and transfer from an intensive care unit
- Actively and appropriately participate in the care of critically ill patients in an ICU setting that emphasizes a multidisciplinary team approach to patient care and values the contribution of all those participating in care of the patient
- Manage ICU patient airways appropriately and provide appropriate respiratory support including mechanical ventilator management
- Recognize and treat life-threatening conditions common in the ICU setting
- Provide appropriate fluid and electrolyte therapy for the critically ill ICU patient
- Provide appropriate nutritional support for the critically ill ICU patient
Surgery ICU Objectives (Cont'd)

- Recognize, understand the basis of, and treat hemodynamic instability in the critically ill ICU patient
- Recognize the psychological aspects of critical care and critical illness on ICU patients and their families and tailor the care they provide appropriately
- Summarize the most common ethical issues involved in critical care medicine including patient autonomy, consent, end of life care, and withdrawal of care
- Participate appropriately in patient procedures performed in the intensive care setting under the direct supervision of the teaching faculty
- Accurately explain the pathophysiology associated with conditions and problems in the ICU patient
- Summarize appropriate indications for the use of blood products
- Diagnose and manage acute renal failure

Expectations:
Report on time. Be available for rounds, admissions, procedures throughout the day. Write a daily detailed progress note on each assigned patient. Present patients to attending and team. Attend didactic sessions. Complete assigned readings. Night and weekend call are expected.

Duty Hours:
Savannah – 6 AM – 6 PM 6 days a week in compliance with the 80 hr/work week.

References:
- The ICU Book 2nd Edition, Paul L. Marino, M.D.

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Cardiovascular Intensive Critical Care/Intensive Care Unit Experience

CLK910.M09
Duration: 4 weeks
Enrollment: Maximum 2 students

Prerequisite: Successful completion of all third year clerkships
Faculty: Dr. John A. Hudson, MCCG, Macon, Georgia
Contact: Contact prior to rotation to arrange course times and place: 478-301-5860, E-mail: hudson.john@mccg.org

Course Goal:
To provide fourth year medical students a basic understanding of the unique aspects of critical care as applied primarily to the post-operative cardiothoracic and vascular surgery patient population in an intensive care unit setting. Opportunities for learning about the principles of surgical and medical critical care will be provided.

Description:
This 4-week rotation will allow the student(s) to actively participate in the care of critically ill patients in conjunction with other members of the ICU team. Interaction with nurses, pharmacists, respiratory therapists, nutritionists, social workers, and other members of the multidisciplinary team will be encouraged and expected during rounds three times per week. Communication skills will be emphasized.
During the rotation the student(s) will be exposed to a wide variety of pre-op and post-op cardiothoracic patients as well as critically ill patients with non-surgical medical problems. Each student will be expected to assist with the management of one or two patients along with the critical care team. Members of the team will instruct the student(s) in basic ventilator management, hemodynamic monitoring, pre-op and post-op assessment of the cardiothoracic patient, interpretation of x-rays, evaluation of lab results, appropriate use of antibiotics, and the fundamentals of critical care. Depending upon the patient population, the technical aspects of central venous catheter insertion, bronchoscopy, cardioversion, etc will be demonstrated with options for the student(s) to actively participate according to his/her ability. The current and evolving role of the intensivist will be discussed.

Objectives:
After this rotation, students will be able to:
- Outline the accepted indications for admission to and transfer from an ICU
- Comprehend the rationale behind a multidisciplinary approach to the care of critically ill patients
- Demonstrate active and appropriate participation in the care of critically ill patients in the ICU setting utilizing the multidisciplinary team model
- Provide appropriate airway management and understand the basics of respiratory support using a mechanical ventilator
Cardiovascular ICU Objectives (Cont’d)

- Recognize and treat life-threatening conditions which are common in the ICU with special emphasis on those conditions encountered in the post-op cardiothoracic surgical patient
- Provide appropriate fluid, electrolyte, and nutritional support for the critically ill patient
- Determine the etiology of hemodynamic instability in the ICU patient and provide appropriate treatment
- Demonstrate an understanding of the pathophysiology associated with the common conditions and problems encountered in the ICU
- Diagnose and manage acute renal failure
- Actively participate in the performance of procedures performed in the ICU setting under the direct supervision of the teaching faculty
- Understand common patient and family psychological issues which may have direct or indirect effects on patient care in the ICU
- Understand the most common ethical issues involved in critical care medicine including patient autonomy, consent, end-of-life care, and withdrawal of care

Duty Hours:
8AM – 4:30 PM, Monday – Friday

Call:
None required

Expectations:
Report on time and dress appropriately – clean scrubs are acceptable. Be available for rounds, new admissions, and procedures. A detailed, daily progress note on each assigned patient is encouraged but not mandatory if there has been little change in a patient’s status overnight. Presentation of assigned patients during multidisciplinary rounds is expected. Attend teaching sessions and complete assigned readings.

CVICU Procedure List:
Students may have an opportunity to perform or assist with the following procedures under faculty supervision. The patient population mix will determine procedure availability.

- Central venous catheter insertion
- Insertion of pulmonary artery catheter
- Insertion of arterial monitoring catheter – either radial or femoral artery
- Insertion of chest tube
- Thoracentesis
- Orotracheal intubation
- Tracheostomy – percutaneous approach
- Insertion of Foley catheter
- Placement of enteral feeding tube
- Bronchoscopy
- Cardioversion

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Critical Care/ Intensive Care

CLK910.M05 PICU
CLK910.S05 PICU

Duration: 4 weeks
Enrollment: Maximum 1 student

Prerequisite: Successful completion of all third year clerkships

Faculty:
- **Macon** Course Director/Contact: Lowell C. Clark, M.D. 478-633-1897, Umesh Narsinghani, M.D. MCCG – Children’s Hospital, Macon, Georgia
- **Savannah** Course Director Thomas W. McKee, M.D., Mary Carol Lytle, M.D., and Laura Vose, D.O. - PICU, 2nd Floor Main Hospital

Contact:
- **Macon** - Cynthia Loudin 478-633-1413 – loudin.cynthia@mccg.org
- **Savannah** - Cheryl Douse 912-350-8194

Course Goal:
This selective is designed to advance the student’s knowledge, experience, and skills in the care of the critically ill child. Emphasis will be placed on pathophysiology and management of common pediatric intensive care problems including acute respiratory failure, sepsis, poisoning, and trauma. Principles of monitoring will be stressed. The student will work directly at bedside with the preceptor and have the opportunity, where appropriate, to gain experience in invasive procedures. The student will make daily rounds and function as an extern. Major topics to be covered include: Fluid and electrolytes, closed head injury, seizures, respiratory distress/arrest, shock (Cardiogenic and non-cardiogenic), renal physiology, and sepsis.

Objectives:
- To advance the student’s knowledge of the general principles of pediatric intensive care
- To provide introductory experience in the procedures of intensive care medicine
- **Macon** - To provide the student with expanded and refined technical skills as applied in the PICU
- **Savannah** - To provide the student with an introductory experience in the evaluation and management of critically ill children

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty and residents. Evaluation will cover the student’s participation, clinical ability to formulate and apply treatment plans, enthusiasm, and attendance. A standard MUSM evaluation form will be completed by the preceptor.
Neonatal Critical Care/ Intensive Care

CLK910.M05 NICU
Duration: 4 weeks
Enrollment: 1 student / Must be Pre-approved – Limited Times

Prerequisite: Successful completion of all third year clerkships

Faculty: Course Director/Contact: Mitch Rodriguez, M.D. or Skyler Mims, M.D. - MCCG Neonatal Intensive Care Unit, Macon, Georgia.

Contact: Dr. Rodriguez rodriguez.mitch@mccg.org 478-765-4132. Student must have pre-approval from Dr. Rodriguez as elective is only offered at certain times of the year.

Description:

This selective rotation is to advance the student’s knowledge, experience, and skills in the care of low birth weight and critically ill newborns that are managed in the Neonatal Intensive Care Nursery at the Medical Center of Central Georgia. The students will perform as externs and share primary care responsibilities with the resident for a selected number of infants with a variety of life-threatening problems. Emphasis will be placed on stabilization of stressed newborns, methods of evaluation and options of treatment. The student is expected to make daily rounds with the attendings and present patients’ problems and plan of management. He/she is required to present a seminar on a neonatology topic. The student will have opportunities to participate in all diagnostic and therapeutic procedures (e.g. lumbar puncture, umbilical artery catheterization, etc.).

Objectives:

- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the care of the critically ill newborn.
- To gain proficiency in common diagnostic and therapeutic procedures
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child’s illness and treatment

Evaluation:

Subjective evaluation will be completed on the student based upon the student’s medical knowledge, communication skills, interest in patients, and presentation of a seminar. A standard MUSM evaluation form will be completed by the preceptor.
Emergency Medicine

CLK914.M04
CLK914.S04
Duration: 4 weeks
Enrollment: Macon: Max 5 students
Savannah: Max 4 students

Prerequisite: Successful completion of all third year clerkships

Faculty: Dr. Tomas Concepcion, MCCG, Macon, Georgia
Dr. Marshall, MUMC, Savannah, Georgia

Contact: Macon – Ann Thaxton 478-633-7707 thaxton.ann@mccg.org at least one week prior to the first day of the clerkship to determine schedule. All students must report on the Monday of the first day of rotation for orientation at the time instructed.

Savannah - Holli Morgan 912-350-3849 two weeks prior to the first day of the clerkship to discuss schedule.

Description:

This selective rotation is an opportunity to get “hands-on” experience with clinical emergency medicine, emergency medical system, critical care, and procedural skills in the Emergency Department. The student has access to multiple attending physicians for educational and clinical supervision at all times in the Emergency Department. There is a Pediatric Emergency Center and a Chest Pain Center at MCCG. MUMC has a Pediatric Emergency Center Section. Students rotating in the emergency centers will have the option to distribute some of his/her time selectively in the pediatric areas of the Emergency Departments. The fourth year student will function much like an intern during shifts.

Objectives:

- To assume responsibility and initiative in caring for patients who present in the emergency room (under faculty supervision)
- To develop an approach to caring for critically ill patients
- To understand the management of the many types of problems presenting to the emergency department
- To gain experience in the procedural skills often required in managing emergency department patients

Evaluation:

The clinical director and at least two other emergency department physicians (chosen randomly) evaluate student performance during the rotation. Students will be evaluated on knowledge, skill, performance, attendance, and professionalism/attitude. Students must also pass departmental test. A standard MUSM evaluation form will be completed by the preceptor.
Geriatrics & Palliative Medicine

CLK926.M04
Duration: 4 weeks
Enrollment: Maximum 4 students

Prerequisite: Successful completion of all third year clerkships

Faculty: Richard J. Ackermann, M.D. and Kathy A. Kemle, PA-C at the Family Health Center, Macon, Georgia.

Contact: Course Coordinator, Janette Carter 478-633-5556 at least 4 weeks prior to the first day of the rotation to arrange course times: carter.janette@mccg.org

Description:

The selective rotation in Geriatrics & Palliative Medicine is structured to expose the student to older adult patients in a variety of settings, including patients’ home personal care homes and nursing homes, retirement communities and physician office practices.

In addition, students will experience the assessment of patients with severe chronic illness and terminal diseases, concentrating on goals care and symptom management. Students will assess palliative patients at the MCCG inpatient palliative care service, at a free-standing inpatient hospice, and on home hospice.

The student will be exposed to ancillary services available to older adults, such as home health agencies, hospice, and various state and local government support programs. There will be assigned reading and writing. The student will participate in the process of comprehensive geriatric assessment and will be exposed to the multi-disciplinary team concept in geriatrics and palliative medicine by interaction with physician assistants, nurse practitioners, nurses, counselors, and other health professionals. Ethical and economic issues relative to health care of the older adult, particularly care at the end of life, will be explored.

Objectives:

- To develop a cognitive knowledge base of the common diseases of older adults
- To expose the student to the range of health-related and social services available to older adults
- To expose the student to importance of assessing and optimizing function in older adults
- To expose the student to principles of comprehensive geriatric assessment
- To expose the student to the multi-disciplinary team approach to management of older adults’ health care needs
- To develop an approach to counseling patients and their families about end-of-life issues
- To develop competence in assessment and treatment of common symptoms at the end of life, including pain, dyspnea, nausea, and delirium, and
- To assist patients and families in the task of withdrawal of active life-sustaining treatments, such as mechanical ventilation and artificial hydration/nutrition.

Evaluation:

Students will take a pre-test and post-test on knowledge and skills related to geriatrics & palliative medicine, as well as assessing their comfort with managing older adults and those at the end of life. A standard MUSM evaluation form will be completed by the preceptor.
ELECTIVE COURSES
Department of Anesthesiology

Mercer University School of Medicine  
1550 College Street  
Macon, Georgia  31207  
478-301-2600

Memorial University Medical Center  
4700 Waters Avenue  
Savannah, Georgia 31404  
912-350-8076

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<th>Course Number</th>
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Mission Statement: The mission of the anesthesiology rotation is to introduce students to the practice of anesthesiology. The student will be exposed to all aspects of the practice of anesthesia in order to gain an appreciation of the full scope of the specialty of anesthesiology. In addition to an introduction to the specialty, students will gain further knowledge and exposure to airway and fluid management, pain management and the physiology and pharmacology unique to anesthesia practice.
Anesthesiology

ANE.M01
ANE.S01
Duration: 2 weeks
Enrollment: Macon – 2 students; Must be pre-approved
Savannah – 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon - Amanda Brown, M.D.; MCCG Department of Anesthesiology, 770 Pine St, Suite L-40, MSC 159, Macon, Georgia 31201.
Savannah – Stephen Miller, MD, MUMC, Savannah, Georgia

Contact: Macon - Contact: Becky Patton 478-633-1200; Email: bpatton@nexusmedical.net; Physician Contact: James Kenneth McDonald, M.D.
Savannah – Stephen Miller, MD 912-350-8056. Course limited to 2-3 students per year interested in a career in Anesthesiology.

Description:

The student will be exposed to all aspects of the practice of anesthesia, including pre-and post-anesthetic evaluation, physiological monitoring, intravenous and arterial cannulation, fluid and electrolytes management, resuscitation, airway management, treatment of acute and chronic pain, (IV narcotics, neuraxial blocks, peripheral nerve blocks), and the use of general anesthetic drugs. The student will rotate through each subspecialty of the practice of anesthesia (Cardiac, Orthopedics, Pain, OB, Neuro, etc.) in order to gain an appreciation of the full scope of the practice of anesthesiology. The student will participate in scheduled departmental meetings and teaching conferences. Reading material will be provided.

Objectives:

- To provide medical students exposure to clinical, pharmacological, and physiological principles that apply to the specialty of Anesthesiology
- To acquaint the student with the theoretical and technical aspects involving the administration of anesthetics and analgesics
- To acquaint the student with the management of acute and chronic pain
- To introduce the student to basic intraoperative fluid management, airway management, and resuscitation techniques

Evaluation:

Student evaluations are based on clinical performance during the rotation. In Macon, a written assignment will be administered during the rotation covering the reading material provided. Evaluations will be based on satisfactory performance of this assignment. A standard MUSM evaluation form will be completed by the preceptor.
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<td>Anatomy for Surgeons</td>
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<td>BAS.S01</td>
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<tr>
<td>BAS.M03</td>
<td>Special Topics – An Interdisciplinary Approach</td>
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<tr>
<td>BAS.S03</td>
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<tr>
<td>BAS.S07</td>
<td>Neuroscience Research</td>
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<tr>
<td>BAS.M09</td>
<td>Research in Basic Science</td>
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<tr>
<td>BAS.S09</td>
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<tr>
<td>BAS.S10</td>
<td>Clinical Cancer Genetics and Genomics Elective</td>
</tr>
</tbody>
</table>
Anatomy for Surgeons

BAS.M01
BAS.S01
Duration: 2 weeks
MACON Course is not available 9/24-11/2, 2012 and 2/11 – 4/26, 2013
Enrollment: Maximum 2 students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Padmanabhan Rengasamy, Ph.D., D.Sc., MUSM, Macon, GA
Savannah - William Rhoten, Ph.D., MUSM, Savannah, GA

Contact: Macon - Dr. Rengasamy 478-301-4027, email: Rengasamy_P@mercer.edu
Savannah - Dr. Rhoten, 912-350-1709, email rhoten_wb@mercer.edu

Enrolled students must contact preceptor two weeks prior to the first day of the rotation to arrange course times.
MACON Course is not available 9/24/12 - 11/2/12 and 2/11/13 – 4/26/13

Description:
This elective will provide a full-time dissection/reading course individually designed to fit the student’s learning or career needs. Designate area of interest at enrollment. Schedule as arranged with preceptor.

Objectives:
To provide the interested student with learning opportunities not otherwise available to dissect selected regions or systems

Evaluation:
Final grade is dependent upon:

- Number and quality of dissected specimens and/or;
- A paper and/or a PowerPoint presentation on a topic of interest to the student.
- A standard MUSM evaluation form is to be completed by the preceptor.
Special Topics – An Interdisciplinary Approach

BAS.M03
BAS.S03
Duration: 2 weeks
Enrollment: Maximum 4 students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships.

Faculty: Macon - Michael Horst, Ph.D.
          Savannah - Ron Garner, Ph.D.

Report: Preceptor two weeks prior to the first day of the elective to arrange course times.

Contact: Macon - Dr. Michael Horst 478-301-2558 E-mail: Horst_MN@mercer.edu
          Contact: Maryanne Watkins 478-301-4080
          Savannah - Ron Garner, Ph.D. 912-350-1726 E-mail: garner_re@mercer.edu

Description:

An area, which will have had relatively little exposure, is inborn errors of metabolism. The topics included in this subject area lend themselves well to an interdisciplinary approach between genetics, pathology, physiology, and biochemistry. Examples include cystic fibrosis, Tay Sachs, I-cell disease, and glycogen storage diseases. Typically, the student selects a paper from the current literature to review, then researches the topic by going into the previous literature.

Because the title is so broad, the topic(s) to be presented could be those requested by the student. This course will require outside research and reading.

Objectives:

To present topics which have an interdisciplinary basis that will not have been discussed in the BMP tutorials

Evaluation:

A written paper, 4 – 6 pages in length, in Word with references. The report should include a description of where the field is at present and where it is likely to go in the next 2 – 5 years. A standard MUSM evaluation form is to be completed by the preceptor.
Neuroscience Research

BAS.S07
Duration: 2–4 weeks
Enrollment: Maximum 2 students
Visiting Students: Yes
PCR Majority: No

Savannah Campus Only

Perquisite: Successful completion of all third year clerkships.
Faculty: Tina Thompson, Ph.D.
Report: MUMC labs, Savannah, Georgia
Note: Report 8:00 a.m. the day of the rotation. Contact Dr. Thompson two weeks prior to the start of the rotation to arrange schedule and to discuss topic.
Contact: Tina Thompson, Ph.D. 912-350-0392 Thompson_TL@mercer.edu

Description:
The student will have the opportunity to explore through laboratory and/or literature research, an area of interest in the field of neuroscience. This course is designed to expose the student to state-of-the-art research techniques and to broaden his/her appreciation for the role of biomedical research in the advancement and practice of medicine. The area of research is less important than the process, although it is expected that the student will decide on a project which is within the expertise of the preceptor(s).

Mission compliance is indirect: the course is designed to enhance the student’s ability to think critically and to effectively evaluate the ever-expanding medical literature, which heavily emphasizes the basic sciences.

Objectives:

- To provide students with hands-on research experience
- To educate the student in the basic principles of hypothesis testing including experimental design, data analysis, and manuscript preparation, and or evaluation

Evaluation:
The student’s progress will be evaluated through daily interactions with the preceptor. Final evaluation will be based on the completion of a research paper. All work must be completed within three months from the start of the elective or a grade of Unsatisfactory will be assigned. A standard MUSM evaluation form is to be completed by the preceptor.
Research in Basic Science

BAS.M09  
BAS.S09  
Duration: 2–4 weeks  
Enrollment: Maximum of 4 (depending on faculty availability)  
Visiting Students: No  
PCR Majority: No  

Prerequisite: Successful completion of all third year clerkships.

Faculty: Macon/Savannah

Report: Enrolled students must contact the preceptor two weeks prior to the start of the rotation to arrange schedule and to discuss topic.

Contact: MUSM Basic Science Dept. Macon, Georgia 478-301-4026  
          MUSM Basic Science Dept. Savannah, Georgia 912-350-1700

Description:

The student will participate in at basic science research in as many aspects as possible in the allotted time, including research idea generation, literature search, hypothesis generation, project planning, bench research, data analysis, and presentation of results. Inclusion of the student as a contributing author in any presentation/publication is possible.

Students may choose available faculty and work on a current research topic of mutual interest; or the DBMS Chair will take responsibility for linking students with faculty, assuring adequate faculty-student interaction, and providing the necessary resources to achieve the agreed upon goals of the particular experience.

Each student experience will be individually tailored based upon student interest, faculty availability, and the length of the elective experience.

Objectives:

- To expose and involve students in state-of-the-art research techniques and methods
- To promote to the student the link between basic science research and clinical practice
- To facilitate, through hands on application, the student’s appreciation for and knowledge of sound research methodology
- To facilitate involvement of students in active medical research

Evaluation:

Evaluation will consist of the faculty assessment of daily interactions with the student through the use of the standard elective evaluation form. Contribution toward publication or presentation of results is encouraged, but not required. Student will be required to write their out hypotheses and findings as part of their evaluation. A standard MUSM evaluation form is to be completed by the preceptor.

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Clinical Cancer Genetics and Genomics

BAS.S10
Duration: 2 or 4 weeks
Enrollment: Maximum 6 students
Visiting Students: Yes
PCR Majority: No

Savannah Campus Only

Prerequisite: Successful completion of all third year clerkships

Faculty: Savannah

Report: Enrolled students must contact the preceptor two weeks prior to the start of the rotation to arrange schedule and to discuss topic.

Contact: MUSM Basic Science Dept. Savannah, Georgia 912-350-1700

Description:
This elective is an opportunity to gain more knowledge and insight into advances in cancer molecular genetics and genomic technologies and their roles in the practice of clinical medicine. The elective will consist of lectures, discussion of literature, and hands-on laboratory experience. You will also interact with an MD Clinical Geneticist or a genetic counselor.

Objectives:

- To become familiar with cutting-edge laboratory technologies used in genomics
- To appreciate the integration of cancer molecular genetics with the practice of clinical medicine
- To learn about cancer genetic testing and pharmacogenomics
- To learn about the future of personalized medicine
- To appreciate some of the ethical, legal, and social implications in medical genetics

Evaluation:

The instructors will evaluate the students based on their attendance, their participation in class discussions, and attitude during the elective. No written examination is given. A standard MUSM evaluation form is to be completed by the preceptor.
## Course Descriptions

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<th>Course Name</th>
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<tr>
<td>CMP.M02</td>
<td>Migrant Health Care</td>
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<tr>
<td>CMP.M05</td>
<td>Biostatistics in Clinical Medicine</td>
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<tr>
<td>CMP.M06</td>
<td>Fundamentals of Epidemiology</td>
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<td>CMP.M07</td>
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<td>CMP.M08</td>
<td>International Health</td>
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<tr>
<td>CMP.M12</td>
<td>Research in Population Health</td>
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</tbody>
</table>
Community Medicine

**CMP.M01**
**Duration:** 2-4 weeks
**Enrollment:** Maximum 1 student/site
**Visiting Students:** No
**PCR Majority:** Yes

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**Prerequisite:** Completion of Year Two Community Medicine Requirement

**Faculty:** Mercer University School of Medicine Community Preceptors

**Report:** Selected rural and/or underserved sites in Georgia.

**Contact:**
Dr. Marie Dent 912-350-1722
E-mail: Dent_mm@mercer.edu or
Dr. McKinley Thomas 478-301-5547
E-mail: Thomas_bm@mercer.edu

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**Description:**

This elective focuses on the integration of Community Medicine and Clinical Medicine in a private practice, rural/underserved health care setting. Possible settings include both primary care specialties and medical sub-specialties. The student will participate fully with the preceptor in a wide variety of practice responsibilities in the office and/or community related settings. The elective must be taken in increments of two-consecutive weeks.

**Objectives:**

- To gain an understanding of the practice of medicine in a variety of settings
- To prepare a written report (5-6 pages) that would review the primary, secondary, and tertiary preventive measures observed in the practice
- To discuss with the preceptor the medical, social and ethical issues involved in the selected specialty

**Evaluation:**

Satisfactory completion of the written report and a satisfactory evaluation by the community-based preceptor will be required. The preceptor’s evaluation of the student will include knowledge, skill, and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Migrant Health Care

CMP.M02
Duration: 2–4 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Completion of Year Two Community Medicine Requirement.
Faculty: Dr. Marie Dent
Report: MUSM, Macon, Georgia and Migrant Health Clinics
Contact: Dr. Marie Dent 912-350-1722
E-mail: Dent_mm@mercer.edu or Dr. McKinley Thomas 478-301-5547
E-mail: Thomas_bm@mercer.edu

Description:
This course will provide an introduction to clinical problems in migrant health care settings in Georgia. The student will observe and participate with physicians and midlevel providers in the delivery of health care to migrant populations.

Objectives:
- To observe and participate in a multi-cultural health care delivery setting
- To observe and participate with physicians providing health care through a multidisciplinary health care team.
- To understand the problems and multiple barriers of providing and delivering effective health care to a migrant worker population
- To learn about the disease and health care problems of an indigent and uninsured population
- To understand the occupational and environmental conditions of the migrant population
- To learn about occupational medicine as it relates to the agriculture industry
- To discuss with the preceptor the rationale of treatment rendered
- To read material relating to migrant, multicultural, and occupational health care and discuss with preceptor
- To prepare a 5-6 page paper on a topic related to migrant health or to write a structured reflection regarding the experience

Evaluation:
Satisfactory completion of the written report and a satisfactory evaluation by the community-based preceptor will be required. The preceptor’s evaluation of the student will include knowledge, skill, and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Biostatistics in Clinical Medicine

CMP.M05
Duration: 2 weeks
Enrollment: Maximum 5 students
Visiting Students: No
PCR Majority: No

Prerequisite: Previous statistics course.
Faculty: Dr. Fan Chen
Report: MUSM, Macon, Georgia
Contact: Dr. Marie Dent 912-350-1722
E-mail: Dent_mm@mercer.edu or
Dr. McKinley Thomas 478-301-5547
E-mail: Thomas_bm@mercer.edu

Description:
This course will provide an overview of basic descriptive statistics and how they are applied and used in the medical literature. The student will learn how to sample, describe, test hypothesis, analyze, and present data obtained from the medical records in a health care center practice. Simple inferential statistics such as t-test, z-test, chi-square, and f-tests will be discussed in the context of the medical literature.

Objectives:

- To evaluate the statistical applications used in the medical literature
- To learn how to sample medical records from patient files
- To understand the basic statistical meaning used in clinical medicine
- To be knowledgeable of the major issues in Biostatistics, which can result in error and inappropriate conclusions
- Submit a biostatistical appraisal of a published article pertaining to the appropriateness of the research results
- Set up a sample design and select an appropriate sample from the medical records in a clinic

Evaluation:
Satisfactory completion of the written requirements and a satisfactory evaluation by the faculty will be required. The faculty's evaluation of the student will include knowledge, skill, and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Fundamentals of Epidemiology

CMP.06
Duration: 2 weeks
Enrollment: Maximum 5 students
Visiting Students: No
PCR Majority: No

Prerequisite: Completion of Year Two Community Medicine Requirement.
Faculty: Selected faculty from Community Medicine and the community
Report: MUSM, Macon, Georgia
Contact: Dr. Marie Dent 912-350-1722
E-mail: Dent_mm@mercer.edu or Dr. McKinley Thomas 478-301-5547
E-mail: Thomas_bm@mercer.edu

Description:

Basic descriptive epidemiology concepts of person, place, and time will be explored in the classroom and at a local department of health. * Concepts related to study design (case control, follow-up, cross-sectional, and clinical trial) and evaluation of screening tests will be studied. Emphasis will be on how family practice physicians can use epidemiological methods in their everyday practice.

* The student will be assigned to a local public health department to do a descriptive epidemiological study project on a specific local health program.

Objectives:

- To select a disease for study and understand the descriptive epidemiology of that disease in a local area (i.e. person, place, and time)
- To understand the basic study designs used in clinical experiments
- To evaluate the medical literature
- To utilize basic epidemiological skills in a family practice setting
- Prepare a brief written or oral report on the experience in the local health department

Evaluation:

Satisfactory completion of the oral or written report and a satisfactory evaluation by the faculty and community-based preceptor will be required. The evaluation of the student will include knowledge, skill, and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Introduction to Public Health

CMP.M07
Duration: 2 weeks
Enrollment: Maximum 2 students
Visiting Students: No
PCR Majority: No

Prerequisite: Completion of Year Two Community Medicine Requirement
Faculty: State of Georgia, District Health Officers
Report: District Health Offices. Limited availability, check schedule with program coordinator
Contact: Dr. Marie Dent 912-350-1722
E-mail: Dent_mm@mercer.edu or Dr. McKinley Thomas 478-301-5547
E-mail: Thomas_bm@mercer.edu

Description:

The student will be assigned to a health district of the Georgia Department of Human Resources, Division of Public Health, to work with the staff including the District Medical Officer. Opportunities to explore and understand the administration, delivery, and functions of local health programs will be provided. Examples of such programs include Maternal High Risk Program; WIC (Women, Infants and Children); Women’s Health Program; Stroke, Hypertension, and Heart Attack Program; and Diabetes Control Program. The student will come face-to-face with the problems and solutions of the delivery of public health programs in Georgia.

Objectives:

- To understand the basic principles of public health
- To aid in the screening and evaluation of patients in the health department
- To understand a practice setting from the health officer’s (administration) point of view
- To experience the delivery and function of many of the health programs in local health departments
- Prepare an oral report relating to the various experiences that occurred in the practice setting

Evaluation:

Satisfactory completion of the oral report and a satisfactory evaluation by the community-based preceptor will be required. The preceptor’s evaluation of the student will include knowledge, skill, and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
International Health

CMP.M08 Cross Listed with FAM.M12

Duration: 1–4 weeks
Enrollment: Maximum 3 students per campus, 6 students total
Visiting Students: No
PCR Majority: Yes

Prerequisite: Prior approval by one of the course faculty is required. Contact with faculty should normally be made by at least three months prior to the beginning of the rotation.

Faculty: Dr. William Bina (Community Medicine); Dr. Sylvia Shellenberger (Family Medicine); Dr. Mike Smith and Dr. Harold Katner and Dr. Mark Byler

Report: Japan, Korea, Argentina and Zimbabwe. Other sites may be added.

Contact: Dr. William F. Bina (Japan, Korea and SE Asia): 478-301-5570; Drs. Mike Smith, Harold Katner, and Mark Byler (Zimbabwe) 478-301-5832; Dr. Sylvia Shellenberger (Argentina) 478-633-5546

Description:

The purpose of this elective is to provide exposure to general health care practices and issues in a foreign country. Experiences include activities involved in patient care under supervision at ambulatory care clinics, hospitals, and public health programs depending on student interests.

Objectives:

- To observe and experience the general health system of a foreign institution and to describe similarities and differences with the U.S. system
- To promote mutual understanding and respect
- To enhance medical skills, to appreciate an inside view of another culture, and to describe how cultural differences impact health care

Evaluation:

An evaluation on each student will be performed at the end of the experience. This will be based on how well he/she met the above objectives. A report describing the experiences will be required and is due one week after the visit. The report may include a structured reflection. A standard MUSM evaluation form is to be completed by the preceptor.
Research in Population Health

CMP.M12
Duration: 4 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: No

Prerequisite:
Successful completion of Year Two Community Medicine requirements.

Faculty:
Selected Faculty in Community Medicine

Contact:
Dr. Marie Dent 912-350-1722
E-mail: Dent_mm@mercer.edu or
Dr. McKinley Thomas 478-301-5547
E-mail: Thomas_bm@mercer.edu

Description:
This elective enables the student to work closely with a faculty preceptor to investigate an issue related to population health. Activities will be directed towards publishing a paper or making a significant presentation. The exact content will be negotiated and is dependent upon the needs and abilities of the student.

Objectives:
- To provide the student with experience in developing and investigating an appropriate research question in population health
- To develop skills in designing a research protocol, conducting research, analyzing data, and preparing manuscripts for publication or presentation
- To enhance the student’s ability to critically review current medical literature
- Prepare a first draft of an article intended for publication or presentation

Evaluation:
Student will meet periodically with faculty preceptor to review learning issues, assess progress of the research, and make future plans regarding the research. Final evaluation will be based on the satisfactory completion of the first draft of an article intended for publication or presentation. Student’s knowledge, skill, and professionalism will also be evaluated. A standard MUSM evaluation form is to be completed by the preceptor.
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<th>Course Number</th>
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<tbody>
<tr>
<td>EME.M01</td>
<td>Emergency Medicine Elective</td>
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<td>EME.S01</td>
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<tr>
<td>EME.M02</td>
<td>Emergency Medicine Research Elective</td>
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</table>
Emergency Medicine – Clinical Elective

EME.M01, EME.S01

Duration: 2–4 weeks
Enrollment: Macon: Max 5 students
          Savannah: Max 4 students
Visiting Students: Macon – Yes
                Savannah- No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Emergency Department, MCCG, Macon, Georgia
         Emergency Department, MUMC, Savannah, Georgia
Contact: Macon – C. Ann Thaxton 478-633-7707 thaxton.ann@mccg.org at least one week prior to the first day of the clerkship to determine schedule. All students must report on the Monday of the first day of rotation for orientation at the time instructed. Savannah- Holli Morgan 912-350-3849 two weeks prior to the first day of the clerkship to discuss schedule.

Description:
This rotation is an opportunity to get “hands-on” experience with clinical emergency medicine, emergency medical system, critical care, and procedural skills in the Emergency Department. The student has access to multiple attending physicians for educational and clinical supervision at all times in the Emergency Department. There is a Pediatric Emergency Center and a Chest Pain Center MCCG. MUMC has a Pediatric Emergency Center Section. Students rotating in the emergency centers will have the option to distribute some of his/her time selectively in the pediatric areas of the Emergency Departments. The fourth year student will function much like an intern during shifts.

Objectives:

- To assume responsibility and initiative in caring for patients who present in the emergency room (under faculty supervision)
- To develop an approach to caring for critically ill patients
- To understand the management of the many types of problems presenting to the emergency department
- To gain experience in the procedural skills often required in managing emergency department patients

Evaluation:
The clinical director and at least two other emergency department physicians (chosen randomly) evaluate student performance during the rotation. Students will be evaluated on knowledge, skill, performance, attendance, and professionalism/attitude. A standard MUSM evaluation form is to be completed by the preceptor.
Emergency Medicine – Research Elective

EME.M02
Duration: 4 weeks – available during March & April
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Delanor Doyle, M.D., MCCG, Macon, Georgia
Contact: C. Ann Thaxton 478-633-7707 thaxton.ann@mccg.org at least one week prior to the first day of the clerkship to determine schedule.

Not available on the Savannah Campus.

Description:
This rotation offers the student the opportunity to review the functioning of a large hospital-based E.M.S., Emergency Department Triage and Patient Flow Systems, participation in the maintenance/teaching of the Core Curriculum in Emergency Medicine, potential for participation in Clinical Trials, participation in paramedic, physician extender, medical student, and physician Emergency Medicine Training Programs.

Objectives:

- To formulate a topic worthy of clinical research in the Emergency Department
- If feasible, in conjunction with the preceptor, this topic will be developed into a proposal for a Clinical Trial or Epidemiologic Survey
- To help initiate and to follow-through on any research project initiated during the elective

Evaluation:
The clinical director and at least two other emergency department physicians (chosen randomly) evaluate student performance during the rotation. Final evaluation will be based on the completion of a research paper. A standard MUSM evaluation form is to be completed by the preceptor.
## Department of Family Medicine

Mercer University School of Medicine  
1550 College Street  
Macon, Georgia 31207  
478-633-1063  

Memorial University Medical Center  
4700 Waters Avenue  
Savannah, GA 31404  
912-350-8039  

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<td>FAM.C01 – Columbus</td>
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<tr>
<td>FAM.R01 – Rome</td>
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<td>FAM.S01 – Savannah</td>
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<td>FAM.M05</td>
<td>Geriatrics and Palliative Medicine</td>
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<td>Family Medicine in the Developing World / Rome/Haiti</td>
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<td>FAM.M19</td>
<td>Service Learning in a Volunteer Clinic</td>
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<td>FAM.C20</td>
<td>Intensive Care Medicine</td>
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<tr>
<td>FAM.M21</td>
<td>Family Medicine Research</td>
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### Senior Family Medicine Sub-Internship

**FAM.L01, FAM.A01, FAM.C01, FAM.R01, FAM.S01**

**Duration:** 4 weeks  
**Enrollment:** Campus/Site Specific  
**Visiting Students:** Yes  
**PCR Majority:** Yes

<table>
<thead>
<tr>
<th>Prerequisite:</th>
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<td>Successful completion of all third year clerkships</td>
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<thead>
<tr>
<th>Sub-Internship</th>
<th>Location</th>
<th>Faculty</th>
<th>Contact Information</th>
<th>Enrollment</th>
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<tbody>
<tr>
<td><strong>FAM.L01</strong></td>
<td>Albany</td>
<td>George T. Frederick, M.D. and other faculty at the Southwest Georgia Family Medicine Residency Program in Albany, Georgia. Contact Susan Workman 229-312-8878.</td>
<td>Enrollment one (1) student.</td>
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<tr>
<td><strong>FAM.A01</strong></td>
<td>Atlanta (Morrow)</td>
<td>Patrice Pearson, M.D. and other faculty at the Family Medicine Residency Program at the Atlanta Medical Center in Morrow, Georgia. Contact Dr. Patrice Pearson 770-968-6460 <a href="mailto:patrice.pearson@tenethealth.com">patrice.pearson@tenethealth.com</a>. - Enrollment: one (1) student.</td>
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<td><strong>FAM.C01</strong></td>
<td>Columbus</td>
<td>Janine Burgher-Jones, M.D., Director, Undergraduate Training, Associate Director at the Family Medicine Residency Program at Columbus Regional Medical Center, in Columbus, Georgia. Contact Susan Davis 706 571-1145.</td>
<td>Enrollment: one (1) student.</td>
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<tr>
<td><strong>FAM.R01</strong></td>
<td>Rome</td>
<td>LeBron McBride, Ph.D., MPH, and other faculty at the Family Medicine Residency Program at Floyd Medical Center, in Rome, Georgia. Contact Dr. McBride 706-509-3343.</td>
<td>Enrollment: one (1) student. <strong>Note: Rome only takes students going into Family Medicine from July – February.</strong></td>
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<tr>
<td><strong>FAM.S01</strong></td>
<td>Savannah</td>
<td>Robert Pallay, M.D. and other faculty at the Family Medicine Residency Program at Memorial University Medical Center, Savannah, Georgia. Contact Jennifer Fogle 912-350-8039.</td>
<td>Enrollment: one (1) student.</td>
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</table>
FAM.L01 Albany, FAM.A01 Atlanta (Morrow), FAM.C01 Columbus, FAM.R01 Rome, FAM.S01 Savannah

General Description for all sites:

This rotation is structured as a sub-internship with the Department of Family Medicine to expose students to the full-breadth of Family Medicine. Activities include intensive hands-on direct responsibility for the continuing and comprehensive care of patients in both ambulatory and in-hospital settings. Patient care responsibilities will occur under close supervision of faculty and advanced residents. Also, included are clinical conferences and brief exposures to rural family Medicine and care of the older adult patient. Ambulatory clinic experiences in other specialty and/or subspecialty areas of particular interest to the student can be individually arranged.

Objectives:

- To assume responsibility and initiative in care for patients (under faculty supervision)
- To enhance perception of and attitudes toward the role of a physician and Family Medicine
- To become reacquainted with the many facets of the family physician and of Family Medicine
- To enhance the ability to establish effective physician-patient relationships
- To improve skills in gathering and recording appropriate patient information
- To improve skills in making appropriate clinical judgments
- To improve skills in planning, implementing, and evaluating therapy
- To improve skills in planning, implementing and evaluating Health Maintenance Disease Prevention and Continuous Health Care

Evaluation:

Student evaluations are based on clinical performance during the four-week rotation. The faculty member who has had the most contact with the student and observed his/her clinical performance performs evaluations. A standard MUSM evaluation form is to be completed by the preceptor.
Geriatrics and Palliative Medicine Elective

FAM.M05 (Cross Listed with Selective CLK926.M04)

Duration: 4 weeks
Enrollment: Maximum 4 students
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Richard J. Ackermann, M.D. and Kathy A. Kemle, PA-C at the Family Health Center, Macon, Georgia.
Contact: Janette Carter, Course Coordinator, 478-633-5556 at least 4 weeks prior to the first day of the rotation to arrange course times: carter.janette@mcg.org

Not available on the Savannah Campus.

Description:

This rotation is structured to expose the student to older adult patients in a variety of settings, including patients’ home personal care homes and nursing homes, retirement communities and physician office practices.

In addition, students will experience the assessment of patients with severe chronic illness and terminal diseases, concentrating on goals care and symptom management. Students will assess palliative patients at the MCCG inpatient palliative care service, at a free-standing inpatient hospice, and on home hospice.

The student will be exposed to ancillary services available to older adults, such as home health agencies, hospice, and various state and local government support programs. There will be assigned reading and writing. The student will participate in the process of comprehensive geriatric assessment and will be exposed to the multi-disciplinary team concept in geriatrics and palliative medicine by interaction with physician assistants, nurse practitioners, nurses, counselors, and other health professionals. Ethical and economic issues relative to health care of the older adult, particularly care at the end of life, will be explored.

Objectives:

- To develop a cognitive knowledge base of the common diseases of older adults
- To expose the student to the range of health-related and social services available to older adults
- To expose the student to importance of assessing and optimizing function in older adults
- To expose the student to principles of comprehensive geriatric assessment
- To expose the student to the multi-disciplinary team approach to management of older adults' health care needs
- To develop an approach to counseling patients and their families about end-of-life issues
- To develop competence in assessment and treatment of common symptoms at the end of life, including pain, dyspnea, nausea, and delirium, and
- To assist patients and families in the task of withdrawal of active life-sustaining treatments, such as mechanical ventilation and artificial hydration/nutrition.

Evaluation:

Students will take a pre-test and post-test on knowledge and skills related to geriatrics and palliative medicine, as well as assessing their comfort with managing older adults and those at the end of life. A standard MUSM evaluation form is to be completed by the preceptor.
Geriatrics Research

FAM.M06
Duration: 2-4 weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Richard J. Ackermann, M.D. at the Family Health Center, Macon Georgia.
Contact: Dr. Ackermann at least four weeks prior to the first day of rotation to arrange course times: 478 633-0550.

Not available on the Savannah Campus

Description:

This elective allows the student to work closely with a faculty preceptor to investigate in-depth an issue or set of issues relating to geriatrics. Activities will be directed towards publishing a paper or making a significant presentation. The exact content is negotiable and dependent on the needs and abilities of the student.

Objectives:

- To expose the student to the process of developing an appropriate research question
- To facilitate development of skills in designing a research protocol
- To facilitate development of investigational skills
- To facilitate development of medical writing skills
- To expose the student to the general requirements for submission of papers for presentation/publication
- To enhance the student’s ability to critically review current medical literature

Evaluation:

Regularly scheduled meetings will be held to review learning issues, assess progress on project, and make future plans/modify goals.

A summary conference will be held to review progress during the course of the elective. A written evaluation co-authored by the student and preceptors will be reviewed. The evaluation will highlight the specific skills learned during the elective and delineate areas of need for future development. A standard MUSM evaluation form is to be completed by the preceptor.
Palliative Care - Savannah

MED.FAM.S17
Duration: 4 weeks
Enrollment: Maximum 4 students

Prerequisite: Successful completion of all third year clerkships

Faculty: Savannah – Kelly Erola, M.D., Chief Medical Director, Hospice Savannah

Contact: Savannah – Kelly Erola, M. D. – kerola@stewardcenter.org

This elective is not available in Macon.

Description:
To be determined upon further discussion with Dr. Erola.

Objectives:

➢ To be determined upon further discussion with Dr. Erola.

Evaluation:

Course must have specific evaluation criteria concerning knowledge, skills, attitude, attendance, professionalism, etc. The preceptor will complete the standard MUSM evaluation form.
Practice Management

FAM.M07
Duration: 4 weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Hugh McLaurin, M.D., M.B.A. at the Family Health Center, Macon, Georgia.

Contact: Contact Dr. McLaurin at least four weeks prior to the start of the rotation to arrange course times at 478 633-0550.

Not available on the Savannah Campus

Description:
The Practice Management elective is designed to give the fourth year medical student an overview of the business side of office practice. The student will gain exposure to billing, coding, scheduling, medical records, personnel issues, and the running of an office laboratory. For students who want exposure to the office practice of a certain specialty, efforts will be made to team up with a local physician’s office in that specialty. Students with a particular interest in a certain subject matter may choose to do a project involving that subject.

Objectives:

- Develop a basic understanding of the business aspects of running a physician’s office
- Develop a vocabulary of business terms and an understanding of basic business concepts
- Understand the importance of quality in health care from a management perspective
- Learn the rules (CLIA) that apply to physicians who wish to maintain an office lab

Evaluation:

Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Family Medicine in the Developing World – Rome/Haiti

FAM.R11
Duration: 1 week
Enrollment: Maximum 2 students
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Melvin Thomas, M.D. and faculty/residents of the Rome Family Practice Residency, Floyd Medical Center, Rome Georgia.

Contact: Dr. Thomas at the time of enrollment for information: 706-509-3300.

Description:
Since the rotation is conducted in Haiti (usually in January) there must be advanced planning and contact with Dr. Thomas prior to acceptance for it. This rotation is structured to be an introduction into how medical care is delivered in third-world countries. Experiences include treating persons with tropical diseases and discussing their management. This rotation is intended to be an eye opening experience in how to be flexible in the delivery of health care. The medical student will always be under the supervision of a board-certified family physician. Medical Student also will be required to study the available healthcare system in Haiti and what is being done to enhance it.

Note: The student will be working along the side of Haitian physicians. Entry into Haiti is through the Dominican Republic. Approximate cost to student is $1,500.

Objectives:

➢ To provide an opportunity to assume responsibility and make initial assessments of outpatient health needs, under direct faculty supervision
➢ To see how a family physician can function in the role of team coordinator in third-world setting
➢ To improve skills in planning, implementing, and evaluating health maintenance in an under-privileged setting
➢ To learn how to work as a team with two physicians

Evaluation:
Evaluation on each student will be performed at the end of the week experience. This will be based on how well he/she met the above criteria. A standard MUSM evaluation form is to be completed by the preceptor.
International Health

FAM.M12 (Cross Listed with CMP.M08)
Duration: 1–4 weeks
Enrollment: Maximum 3 students per campus, 6 students total
Visiting Students: No
PCR Majority: Yes

Prerequisite: Prior approval by one of the course faculty is required. Contact with faculty should normally be made by at least three months prior to the beginning of the rotation.

Faculty: Dr. William Bina (Family Medicine), Dr. Sylvia Shellenberger (Family Medicine), Drs. Mike Smith and Harold Katner and Mark Byler (Internal Medicine)

Report: Japan, Korea, Argentina and Zimbabwe. Other sites may be added.

Contact: Dr. William F. Bina (Japan, Korea, and SE Asia): 478-301-5570; Drs. Mike Smith, Harold Katner, and Mark Byler (Zimbabwe) 478-301-5832; Dr. Sylvia Shellenberger (Argentina) 478-633-5546

Description:
The purpose of this elective is to provide exposure to general health care practices and issues in a foreign country. Experiences include activities involved in patient care under supervision at ambulatory care clinics, hospitals, and public health programs depending on student interests.

Objectives:
- To observe and experience the general health system of a foreign institution and to describe similarities and differences with the U.S. system
- To promote mutual understanding and respect
- To enhance medical skills, to appreciate an inside view of their culture, and to describe how cultural differences impact health care

Evaluation:
An evaluation on each student will be performed at the end of the experience. This will be based on how well he/she met the above objectives. A report describing the experiences will be required and is due one week after the visit. A standard MUSM evaluation form is to be completed by the preceptor.
Family Medicine in the Developing World – Macon

**FAM.M13**

**Duration:** 2 weeks  
**Enrollment:** Maximum 2 students  
**Visiting Students:** No  
**PCR Majority:** Yes

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:** J. Paul Seale, M.D. and selected faculty of the Department of Family Medicine/ Macon Family Practice Residency, Medical Center of Central Georgia.

**Contact:** Dr. Seale at the time of enrollment for information: 478-633-5910 (Kathy Moes, Administrative Assistant). Contact should normally be made by at least three months prior to the beginning of the rotation.

**Description:**

This rotation is structured to be an introduction into how medical care is delivered in less-developed countries. Experiences include setting up a small walk-in day clinic to dispense health maintenance care as well as some acute medical care in rural villages. Some in-hospital surgical experiences will also be available for the interested student. This rotation is intended to be an eye opening experience in how to be flexible in the delivery of health care. The medical student will always be under the supervision of a board-certified family physician. This elective is in full compliance with the primary care mission of MUSM.

**Objectives:**

- To provide an opportunity to assume responsibility and make initial assessments of outpatient health needs
- To see how a family physician can function in the role of team coordinator in a rural third-world setting
- To enhance physical diagnostic skills in the absence of laboratory back-up
- To improve skills in planning, implementing, and evaluating health maintenance in an under-privileged setting
- To learn how to work as a team in concert with nurses, dentists, surgical sub-specialists and patient education counselors

**Evaluation:**

Evaluation on each student will be performed at the end of the two-week experience. This will be based on how well he/she met the above criteria. A standard MUSM evaluation form is to be completed by the preceptor.
Supplemental Family Medicine Readings

FAM.M14 (Cross Listed with INM.M03)
FAM.S14
Duration: 2 weeks
Enrollment: No Limit
Visiting Students: No
PCR Majority: No

Prerequisite: Completion of all third year clerkships, MAY NOT be taken after the scheduled STEP II exam date.

Faculty
Macon - Alice Aumann House, M.D.
Savannah – Regina Buckley, D.O.

Contact:
Macon – Jennifer Rayhill or Alice Aumann House, M.D. 478-301-2879
Savannah – Jennifer Fogle – 912-350-8039

Description:
This elective course is intended to provide the student an opportunity to supplement their knowledge of clinical subject content in areas that they feel need enhancement or are of great interest to them. The student is to identify these particular areas and make objectives they wish to cover in each subject area identified. The list of objectives will be given to the faculty member early in the rotation. It is the faculty member’s and the student’s responsibility to ensure that these objectives are met during the course of this elective. A typical elective will include 4-6 hrs per week of face-to-face contact with the faculty member and a minimum of 50-75 pages covered.

Requirements:
- student will identify knowledge gaps or areas of interest in content area
- student will write objectives they wish to cover in the selected areas and turn them in to the faculty
- student will give faculty list of resources used in completing these objectives
- student and faculty will ensure that all objectives have been met prior to the end of the elective

Objectives
- student will identify knowledge gaps or areas of interest in content area
- student will write objectives they wish to cover in the selected areas and turn them in to the faculty
- student will give faculty list of resources used in completing these objectives
- student and faculty will ensure that all objectives have been met prior to the end of the elective

Evaluation:
The student will write a reflective piece on what they learned and how it will affect their practice in the future. This is to be 1-2 pages in length with a resource list or a 1-2 page report on content area/topic of interest with a resource list. A standard MUSM evaluation form is to be completed by the preceptor.
Palliative Medicine

FAM.M17
Duration: 2–4 weeks
Enrollment: Maximum 2 students
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Richard J. Ackermann, M.D., Jennifer Hames, PA-C, and Kathy Kemle, PA-C, Laura Mullis, NP, and Amanda Lucas, CNS at MCCG in Macon.

Contact: Contact Dr. Dipesh Patel or Dr. Ackermann at 478-633-0550 at least 4 weeks prior to the first day of the rotation to arrange course times.

Not available on the Savannah Campus

Description:
The rotation is structured to expose the student to aspects of palliative medicine in patients continuing with curative care as well as those who have reached the terminal stages of disease. The student will learn methods and modalities of symptom management in patients with a variety of illnesses including malignancies, cardiac and respiratory disease, end-stage renal disease, dementia, and infectious disease (HIV/AIDS). Legal and ethical aspects of providing such care will be discussed, especially as they relate to termination of potentially life-sustaining therapies. There will be discussion of the economic benefits of quality end-of-life care with special emphasis on the Medicare Hospice Benefit. The core content will be provided through required reading, didactic sessions, and direct patient care. Clinical experiences will be predominantly through palliative care consultations and the inpatient Palliative Care Unit at the Medical Center of Central Georgia, but students will also be exposed to Hospice care in patient homes. The interdisciplinary approach to quality palliative care will be explored with exposure to physicians, physician assistants, nurse practitioners, clinical nurse specialists, clinical social workers, marriage and family therapists, and chaplains in clinical situations as well as in the weekly interdisciplinary team meetings.

Objectives:
- To expose the student to the field of palliative medicine and its applications in all aspects of patient care
- To expose the student to a broad range of modalities in pain and symptom management
- To expose the student to ethical, legal, cultural, and economic issues in end-of-life care
- To expose the student to the communication skills needed to develop goals of care with patients and their families throughout the life process
- To expose the student to the delivery of palliative care in various healthcare settings: hospital, home, and inpatient hospice

Evaluation:
The student will be evaluated on the basis of patient management skills and overall grasp of basic palliative medicine concepts. The student will complete a new palliative care consultation each week of the rotation and submit the documentation for evaluation and feedback. A standard MUSM evaluation form is to be completed by the preceptor.
Long Term Care

FAM.M18
Duration: 4 weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty
Richard J. Ackermann, M.D., Dipesh Patel, M.D., Florence Baralatei, M.D., Jennifer Hames, PA-C, and Kathy Kemle, M.S., PA-C at the Family Health Center in Macon.

Contact: Contact Dr. Patel or Dr. Ackermann at 478-633-0550 at least 4 weeks prior to the first day of the rotation to arrange course times.

Not available on the Savannah Campus

Description:
This rotation is designed to expose the student to older patients residing in long term care communities. These include nursing homes, assisted living facilities, and continuing care communities. The student will prepare and present an in-service topic for the staff of one of the facilities, with the guidance and approval of one of the preceptors. Students will be exposed to the common geriatric syndromes, with assigned topics for reading. Completion of at least one geriatric assessment will be expected during the rotation. Economic, regulatory, and ethical issues relevant to long term care patients will be explored. A recognition of the contributions of many members of the health care team, such as physical and occupational therapists, speech pathologists, nurses, physician assistants, nurse practitioners, and nursing assistants will be developed through exposure to the team approach to geriatric care. The complexities of end of life care and symptom management in the long term care population will be addressed.

Objectives:
- To develop a knowledge base of medical problems of long-term care patients
- To expose the student to the range of long term care options for seniors
- To develop an understanding of the psychosocial aspects of care giving and long term care placement
- To expose the student to comprehensive geriatric assessment
- To expose the student to the multi-disciplinary team approach to the care of frail elders
- To expose the student to rehabilitation in the long term care setting
- To expose the student to end of life care in various long term care institutions

Evaluation:
Ongoing assessment of the student’s progress in the objectives of the rotation will be completed through weekly meetings with preceptors. An assessment of the student’s presentation will be included in the evaluation with suggestions for improvement. A standard MUSM evaluation form is to be completed by the preceptor.
Service Learning in a Volunteer Clinic

FAM.M19
Duration: 2 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Lynn Denny, M.D., Medical Director of Macon Volunteer Clinic 478-755-1110 x124.
Contact: Volunteer Coordinator Judy Schultz 478-755-1110 ext. 139. mvcvolunteers@cox.net

Not available on the Savannah Campus

Description:

The Macon Volunteer Clinic serves the working uninsured in Macon and Bibb County. This elective allows students to work in the clinic under the supervision of its medical director diagnosing, treating and educating the clientele served there.

Objectives:

- Remind/educate the student to the ever-expanding group of the working uninsured, and where they currently receive care
- Respond to the needs by routinely working in the MVC as upper level student (Minimum of 10 clinics or patient educational sessions)
- Gather “best practices” at other clinics by visiting them (on site or virtually) and interviewing personnel at three different clinics, then reporting findings back to the medical director in the form of a written paper, detailing how the new ideas would help to meet the local needs uncovered in #1 above
- Discuss with Executive Director and Development Director of MVC (1 hour meeting) how expenses are met through funding efforts
- Assist the medical director in ensuring quality care is delivered at the MVC

Evaluation:

Student will submit a 3-5 page (750 words minimum) paper detailing the visits to other clinics and offering practical guidance to the leadership of the MVC. Each student will also be responsible for working in 10 three-hour clinics (seeing patients or chaperoning less experienced students) or spending an equivalent amount of time in direct patient care while performing patient education. A standard MUSM evaluation form is to be completed by the preceptor.
Intensive Care Medicine – Columbus

FAM.C20
Duration: 2-4 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Sponsoring Preceptor: Dr. Vincent Nicolais.
Contact: Ms. Susan Davis, Medical Education Department 706-571-1145.

Description:
Learners will spend all their time in the ICU of Columbus Regional Medical Center, working directly with Intensivist Dr. Vincent Nicolais. They will observe the management of the critically ill, medical and surgical patient. They will have the opportunity to observe and to perform many common ICU procedures, such as Central Line placement, intubation, et al. In addition to rounding on patients, Dr. Nicolais gives didactic lectures on a daily basis.

Objectives:
- Learn to recognize when a patient needs critical care
- Formulate an assessment
- Derive a management plan
- Expected to develop some familiarity with ventilator management, and to become knowledgeable about the more common drugs used in the ICU setting

Evaluation:
Their evaluation is done exclusively by Dr. Nicolais at the end of the rotation and is subjective. Ongoing verbal feedback is also given by him throughout the rotation. He may at times assign a topic to the learner to present to the group, which he again would “grade” subjectively. There is no test or exam with this rotation. Night Call is not required.
Course must have specific evaluation criteria concerning knowledge, skills, attitude, attendance, professionalism, etc. This area must include all methods of evaluation for the course; subjective, paper, presentation, examination, etc. A standard MUSM evaluation form is to be completed by the preceptor.
Family Medicine Research

FAM.M21
Duration: 2-4 weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: J. Paul Seale, M.D., Monique Davis-Smith, M.D. or Sylvia Shellenberger, Ph.D. at the Family Health Center, Macon Georgia.

Contact: Contact faculty member at least four weeks prior to the first day of rotation to arrange course times: 478-633-0550.

Not available on the Savannah Campus

Description:
This elective allows the student to work closely with a faculty preceptor to investigate in-depth an issue or set of issues relating to family medicine. Activities will be directed towards publishing a paper or making a significant presentation. The exact content is negotiable and dependent on the needs and abilities of the student.

Objectives:
- To expose the student to the process of developing an appropriate research question
- To facilitate development of skills in designing a research protocol
- To facilitate development of investigational skills
- To facilitate development of medical writing skills
- To expose the student to the general requirements for submission of papers for presentation/publication
- To enhance the student’s ability to critically review current medical literature

Evaluation:
Regularly scheduled meetings will be held to review learning issues, assess progress on project, and make future plans/modify goals.

A summary conference will be held to review progress during the course of the elective. A written evaluation co-authored by the student and preceptors will be reviewed. The evaluation will highlight the specific skills learned during the elective and delineate areas of need for future development. A standard MUSM evaluation form is to be completed by the preceptor.
## Course Number | Course Name
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INM.M01/INM.S01 | Internal Medicine Sub-Internship
INM.M02 | Research with Thesis/Paper Generation
INM.M03 | Supplemental Internal Medicine – Readings/Research
INM.M04 | Readings in Cardiology
INM.M05/INM.S05 | Clinical Cardiology I
INM.M06 | Cardiology II – EKG Readings
INM.M08 | Pulmonary Medicine
INM.M09/INM.S09 | Dermatology
INM.M10 | Endocrinology
INM.M11/INM.S11 | Gastroenterology
INM.M12/INM.S12 | Neurology
INM.M13/INM.S13 | Nephrology
INM.M14 | Medical Oncology
INM.M15/INM.S15 | Infectious Disease
INM.M16/INM.S16 | Rheumatology
INM.M18 | Critical Care / Intensive Care Unit Experience Cardiovascular Intensive Care Unit (CVICU)
INM.M19 | Podiatry Rotation
INM.M20 | Rehabilitative Medicine
INM.M21 | Hospitalist Rotation
INM.XXX | Hospital Medicine - Savannah
INM.M22 | Critical Care / Intensive Care Unit Experience – Internal Medicine
INM.M23 | Practice Management
**Internal Medicine Sub-Internship**

**INM.M01, INM.S01**

**Duration:** 4 Weeks  
**Enrollment:** Maximum 1 Student  
**Visiting Students:** Yes  
**PCR Majority:** Yes

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**Prerequisite:** Successful completion of all third year clerkships

**Faculty:**  
**Macon** - Department of Medicine Attending Physicians, MCCG, Macon, Georgia.  
**Savannah** - Department of Medicine Attending Physicians, MUMC, Savannah, Georgia.

**Contact:**  
**Macon** – 478-301-5840, Contact Department Chair four weeks prior to beginning of rotation  
**Savannah** - Sandra Simmons 912-350-8372; Contact prior to the beginning of the rotation

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**Description**

During this rotation the student acts as an intern admitting patients under the supervision of the staff service attending and the senior resident. The student will be required to formulate a diagnostic and treatment plan and with the senior resident write orders to implement the plan. He will also be required to complete a history and physical exam and write daily progress notes and a discharge summary. Patients will be selected for admission for the student by the supervising resident that will also be responsible for the official history and physical and countersigning all orders before implementation. Call will be taken with the assigned team, which is every fourth day. Full-time faculty and practicing physicians will conduct didactic teaching and rounds.

**Objectives:**

- For the student to learn how to function as an intern under a less stressful and more highly supervised environment  
- To learn about inpatient care for the adult, non-surgical patient  
- To give the student the opportunity to become intimately involved in the decision processes and care of his/her patients

**Evaluation:**

The supervising resident and attending will perform an evaluation based upon the student’s clinical performance, attendance, knowledge, skills, and attitude. A standard MUSM evaluation form is to be completed by the preceptor.
Research with Thesis or Paper Generation

INM.M02
Duration: 2–4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Under the supervision of Chair, Department of Medicine, MCCG, Macon, Georgia.

Contact: Preceptor Approval Required. Contact minimum 4 weeks prior to beginning of rotation.

Not available on the Savannah Campus

Description:
This is a course in which the student spends almost all of the time in the library or the learning resources center in order to review the literature on some subject, collate new data or organize a new hypothesis regarding some subject in the field of Internal Medicine.

Objectives:
To produce a publishable paper in a peer reviewed medical journal

Evaluation:
The preceptor will judge the paper, satisfactory or unsatisfactory. A standard MUSM evaluation form is to be completed by the preceptor.
Supplemental Internal Medicine – Readings/Research

INM.M03 (Cross Listed with FAM.M14)
Duration: 2 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion all third year clerkships
Faculty: Mercer Faculty – George H. Hart, M.D.
Contact: Student to arrange this elective with the preceptor of choice. Prior Approval Required. Contact minimum two weeks prior to beginning scheduled rotation

Description:
This elective course is intended to provide the student an opportunity to supplement their knowledge of clinical subject content in areas that they feel need enhancement or are of great interest to them. The student is to identify these particular areas and make objectives they wish to cover in each subject area identified. The list of objectives will be given to the faculty member early in the rotation. It is the faculty member’s and the student’s responsibility to ensure that these objectives are met during the course of this elective. A typical elective will include 4-6 hrs per week of face-to-face contact with the faculty member and a minimum of 50-75 pages covered.

Requirements:
- student will identify knowledge gaps or areas of interest in content area
- student will write objectives they wish to cover in the selected areas and turn them in to the faculty
- student will give faculty list of resources used in completing these objectives, &
- student and faculty will ensure that all objectives have been met prior to the end of the elective

Objectives
- student will identify knowledge gaps or areas of interest in content area
- student will write objectives they wish to cover in the selected areas and turn them in to the faculty
- student will give faculty list of resources used in completing these objectives, &
- student and faculty will ensure that all objectives have been met prior to the end of the elective

Evaluation:
The student will write a reflective piece on what they learned and how it will affect their practice in the future. This is to be 1-2 pages in length with a resource list or a one–to-two (1 – 2) page report on content area/topic of interest with a resource list. A standard MUSM evaluation form is to be completed by the preceptor.
Readings in Cardiology

INM.M04
Duration: 2 Weeks
Enrollment: Maximum 2 Students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: John Hudson, M.D., Erskine James, M.D., Ahmed Shah, M.D.
MCCG, Macon, Georgia.

Contact: Contact two weeks prior to the start of the rotation to arrange
course times and place: Dr. Hudson, Dr. James, or Dr. Shah
478-301-5850

Not available on the Savannah Campus.

Description:
The student will meet daily with the preceptor and discuss selected articles. The student will
perform literature searches and choose articles that are of interest and use. The preceptor
will also provide relevant articles for discussion.

Objectives:
To further the student’s knowledge of current research, diagnosis, and management of
diseases of the cardiovascular system.

Evaluation:
The preceptor upon completion of the rotation will complete standard evaluation of the
student based on performance, knowledge, attendance and attitude. A list of articles read
and topics discussed is required. A standard MUSM evaluation form is to be completed by
the preceptor.
Cardiology I

INM.M05, INM.S05
Duration: 4 Weeks
Enrollment: 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon – Talley F. Culclasure, M.D. (478-254-2644 or tc culmination@mghvc.com), Thomas P. Meyer, M.D.;
* John C. Hawkins, M.D., * Mark Dorogy, M.D., Zoe Jones, M.D.,
Amy Kingman, M.D., Carter F. Tharpe, M.D., Carmine V. Oddis, M.D.
Savannah - Lloyd Goodman, M.D.

Contact:
Macon - Albert Luce Heart Center, 755 Hemlock St., Ste. 800
*Savannah - Contact Sandra Simmons for schedule 912-350-8372
*Contact Kim Garrett prior to the first day of the rotation
to arrange schedule 478-741-1208 or email: kgarrett@cghc.us

Description:
The student is assigned to the Department of Cardiology under the direction of the chief of that department
and will work with cardiologists who have expertise in non-invasive cardiology, invasive cardiology and
electrophysiology and will be exposed to all aspects of cardiovascular medicine. The student will work up
patients on the Cardiology Service in conjunction with the internal medicine resident on that service. The case
will follow patients through invasive and non-invasive evaluation and management of systemic atherosclerotic
disease, valvular heart disease, congestive heart failure, and cardiac arrhythmias. Student will attend the
weekly cardiology clinic as well as see selected outpatients in the offices of the above cardiologists. An
evidence-based approach emphasized with supplementary readings assigned in addition to prepared didactic
presentations and ECG reading sessions.

Objectives:
➢ To improve skills in gathering a cardiovascular history
➢ To improve physical examination skills of the cardiovascular system
➢ To improve skills in appropriate screening for cardiovascular disease and strategies for primary
  prevention of systemic atherosclerotic disease
➢ To gain an understanding of the proper follow-up of patients with established cardiovascular
disease
➢ To improve understanding of cardiovascular physiology and the appropriate use of the cardiologist
  as a consultant
➢ To further develop a basic understanding of ECG/EKG interpretations

Evaluation:
Preceptor’s perception in the areas of knowledge, skills, and attitude. A review paper written on a subject
negotiated with the preceptor at the beginning of the rotation and due at the end of the rotation. This elective
is intended for students wishing to pursue a primary care specialty or cardiology. A standard MUSM
evaluation form is to be completed by the preceptor.
Cardiology II – EKG Readings

INM.M06, INM.S06
Duration: 2 Weeks
Enrollment: 2 Students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Attending - MCCG, Macon, Georgia.

Contact: Macon - Contact Dr. Erskine James for approval, 478-320-4115 james.erskine@mccg.org ,Dr. Ahmed Shah at 301-5840 or Dr. John Hudson –Hudson_ja@mercer.edu

Not available on the Savannah Campus.

Description:
The student will read electrocardiograms under the supervision of faculty.

Objectives:
He or she should understand the fundamentals of interpreting the electrocardiogram

Evaluation:
The preceptor will evaluate the student’s performance in the areas of knowledge, skills, and attitudes. A standard MUSM evaluation form is to be completed by the preceptor.
Pulmonary Medicine

INM.M08
Duration: 2 Weeks
Enrollment: Maximum 4 Students for the Academic Year
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Dr. Jon Dean
PRIOR APPROVAL REQUIRED.
Contact: Office Manager, Patricia Plummer 478-744-2445 – plp@cgpa.mgacoxmail.com

Not available on the Savannah Campus

Description:

This elective will expose the student to various aspects of the practice of pulmonary medicine. The emphasis will be centered upon inpatient consultative practice. However, there will also be exposure to assisting with the primary care of patients with pulmonary disease as well as evaluating and working up patients in a clinic setting. Students will be required to make daily rounds and perform initial and follow up evaluations on the inpatient service. Students will be given lectures on the diagnosis and management of common pulmonary diseases as well as the evaluation of chest x-rays and ventilatory management.

Objectives:

- Students should be able to systematically evaluate patients with underlying pulmonary disease. This will include an emphasis on diagnosing pulmonary diseases with detailed history, physical examination and chest x-rays
- Students will also be exposed to intensive care patients and will be expected to understand the fundamentals of ventilator management

Evaluation:

Student’s evaluation will be based upon his/her performance on rounds and a major importance will be placed on the student’s ability to perform a detailed history and examination and then integrating this information to develop a differential diagnosis and subsequent diagnostic and treatment plan. Students will also be expected to prepare an oral presentation on a topic agreed upon at the beginning of the rotation. A standard MUSM evaluation form is to be completed by the preceptor.
Dermatology

INM.M09, INM.S09

Duration: 2–4 Weeks
Enrollment: Macon 2 students, Savannah 1 student per preceptor
Visiting Students: Macon-No; Savannah-No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:  
Macon - Dr. Kent; Dr. Cohen PRIOR APPROVAL REQUIRED  
Savannah - Dr. Tonya McCullough; Dr. Rebecca Campen

Contact:  
Macon - Dr. Cohen’s nurse, Samantha Young at 478-742-2180. syoung@dsspc.com Address: 308 Coliseum Dr., Ste. 200, Macon, GA 31217  
Savannah - Tonya McCullough, M.D., 820 E. 67th Street. Contact Chansom Croft 912-355-2733; Rebecca Campen, M.D., 5102 Paulsen Street, Unit #4, Savannah, Georgia. Contact: Maria McGowan 912-356-3604.

Description:

The student is assigned to a member of the dermatology faculty who serves as preceptor. Goals are to provide an introduction to the diagnosis and treatment of patients with skin disease. During the rotation the student will have the opportunity to examine patients with all of the most common skin disorders.

Objectives:

- To gain a greater understanding of the field of dermatology, pursuing the study in greater depth than was possible in the cure curriculum in internal medicine
- To gain experience in the handling of patients with dermatologic disease under the tutelage of an experienced dermatologist
- To learn how to distinguish the different types of skin tumors, benign and malignant
- To learn how to obtain biopsies and other diagnostic modalities as well as methods of treatment of skin lesions
- To correlate skin lesions as they relate to other diseases of the body

Evaluation:

The faculty will evaluate the student, based on performance. A standard MUSM evaluation form is to be completed by the preceptor.
Endocrinology

INM.M10
Duration: 2-4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: The Jones Center, Diabetes and Endocrine Wellness
Thomas C. Jones, M.D.; Barry Johns, M.D. 2675 Sheraton Blvd, Ste 100, Macon, GA 31210
Crowley & Kohse: Larry Kohse, M.D. 310 Hospital Dr, Ste 210 Macon 31217

Contact
The Jones Center: Jeff Blodgett
jblodgett@thejonescenter.com 478-746-8626
Dr. Kohse’s Office: Linda Beasley Office Manager
478-254-3513
Not available on the Savannah Campus

Description:
This clerkship is designed to provide the senior medical student with more experience in endocrinology. Activities include comprehensive care of patients in an ambulatory setting, work-up of new patients, and designing care plans for new and existing patients. Students will also have the opportunity to learn from certified diabetes educators and to become more familiar with diagnostic testing used to evaluate the thyroid. Selected readings in endocrinology will be assigned during the rotation.

Objectives:
- Provide the senior medical student with knowledge in endocrinology that was not attained in the third year internal medicine clerkship
- Improve skills in gathering and recording appropriate patient information
- Enhance skills of the student in making appropriate clinical judgments and implementing proper therapy with regard to endocrine pathology

Evaluation:
Student evaluations are based on their overall participation and week rotation. A standard MUSM evaluation form is to be completed by the preceptor.
Gastroenterology

INM.M11, INM.S11
Duration: 2– 4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Macon-No; Savannah-Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships;
Macon – NEED LETTER IN GOOD STANDING TO INCLUDE HIPAA; NEED PPD & HEP-B WITHIN 1 YR

Faculty:
Macon – G.I. Associates of Central GA - Shahriar Sedghi, M.D.
Savannah - Center for Digestive & Liver Health Physicians, 1139 Lexington Ave. Ste. A, Savannah, Georgia

Contact:
Macon – Carolyn 478-464-2600. 610 Third St., Macon, GA 31031
Fax: Dawn Young 478-738-9740
Savannah - Sandra Simmons 912-350-8372.

Description:
The student will participate in all facets of a busy office based and/or hospital based gastroenterology team, along with senior residents and interns from the Internal Medicine residency program. The student will see patients in consultation at MUMC. He or she will see patients in consultation in the office and hospital or as admitted by the attending faculty. This will allow the student to become familiar with acute and chronic manifestations of GI disease processes. He or she will also be familiarized with the technical aspects of gastroenterology to include endoscopy, reflux analysis, motility, and other non-endoscopic gastrointestinal procedures.

Objectives:
- To improve the student’s skills in performing a complete gastrointestinal history and physical examinations as it relates to gastrointestinal illness
- To understand the relationship between the symptoms and signs which have been elicited in the pathophysiology of the underlying gastrointestinal diseases
- To develop an understanding of the indications and limitations of the various gastrointestinal procedures
- To become familiar with the nutritional evaluation and assessment of patients
- To understand the endoscopic approach to patient diagnosis and management and become familiar with the indications for gastrointestinal endoscopy

Evaluation:
The preceptor will evaluate the student's performance in the area of knowledge, skills, attendance, professional nature, and attitudes. A standard MUSM evaluation form is to be completed by the preceptor.
Neurology

INM.M12, INM.S12

Duration: Macon - 2-4 Weeks; Savannah - 4 Weeks Only
Enrollment: Maximum 1 Student/per preceptor
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Neurology Associates: Thomas Hope, M.D., John Spiegel, M.D. Office, 389 Mulberry St., Ste. 200; Macon, Georgia. Savannah - Joel Greenberg, M.D. (adult), Eric Pearlman, M.D. (Pediatric), Savannah Neurology, 5356 Reynolds St., Suite 300, Savannah, Georgia.

Contact: Macon – Dr. Spiegel: Bridget Mathis, 478-743-9123 Snoopylovin_33@yahoo.com Lorene Powell - evaluations Savannah - Linda or Sandra 912-353-3333

*4 week rotation in Adult or Pediatric Neurology or mixed

Description:

This elective will revolve around the practice of neurology. The student will be under the supervision of the preceptor. The student will fully participate in the evaluation of neurological patients both in the office and in the hospital. The evaluation of emergency neurological patients in the Emergency Room will be included. In addition, the student will be required to read selected neurological texts.

Objectives:

➢ To recognize the common neurological problems and to formulate a rational treatment plan
➢ To review basic neuroscience and its relation to clinical neurology

Evaluation:

Student will be evaluated on performance, knowledge, skills, and attendance in the office and in the hospital. A standard MUSM evaluation form is to be completed by the preceptor.
Nephrology

INM.M13, INM.S13

Duration: 2-4 Weeks
Enrollment: 2 Students/preceptor (Must Be Pre-Approved)
Visiting Students: Yes (Savannah - no international students)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Ludwig Cavaliere, V.M.D., Azmi Kabbani, M. D.; Mercer Kidney Center: Ajay Srivastava, M.D.;

Savannah - Michael Wilkowski, M.D., Dana Kumjian, M.D., Rebecca Sentman, M.D.

Contact: Macon – Cavaliere, Kabbani: Contact Susan Hool prior to scheduled rotation 478-745-5455. skeenum@maconmed.com
640 MLK Jr Blvd, Ste 200
Macon – Mercer Kidney Center - Contact two weeks prior to rotation 478-301-2109
Savannah - Contact Joyce Owens, 912-354-4813 at least two weeks prior to the start of the rotation for preceptor assignment and course schedule.

Description:
This elective will familiarize the student with the problems in Nephrology and general problems encompassed in clinical medicine. Instruction and reading is directed toward renal disease, e.g., disseminated lupus, multiple myeloma, systemic hypertension and acute and chronic renal failure. In addition, fluid, electrolyte and acid-base balance is stressed, and the treatment of problems demonstrated.

Objectives:
- To recognize the common renal problems and to formulate a rational diagnosis and treatment plan
- To develop in the broad aspects of Internal Medicine the diagnosis, treatment, and management of both acute and chronic renal failure
- To review renal anatomy and physiology and its relation to clinical nephrology

Evaluation:
Student will be evaluated on performance, knowledge, skills, and attendance in the office and in the hospital. This subjective evaluation will be completed on the Senior Elective Evaluation Form. A standard MUSM evaluation form is to be completed by the preceptor.
Medical Oncology

INM.M14
Duration: 4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Frederick M. Schnell, M.D., Kenneth Deaton, M.D., Bruce Burns, M.D., Linda K. Hendricks, M.D., 1062 Forsyth Street, Suite 1-B, Macon, Georgia.

Contact: Andrea Bennett, 478-314-1658 (call two weeks before scheduled rotation) abennett@centralgacancercare.com

Not available on the Savannah Campus

Description:

This elective will revolve around the private practice of oncology. The student will be under the supervision of either: Dr. Smith, Dr. Schnell, Dr. Deaton, Dr. Hendricks, or Dr. Burns. The student will assist with obtaining the history, perform a physical examination, review the laboratory work, and suggest a plan for the management of that patient. The number of patients seen by the student will depend upon the availability of patients and the expertise of the student. It is expected that the student become familiar with general oncologic principles as it relates to some of the more common neoplastic disease, such as breast cancer, colon cancer, lung cancer, and lymphomas.

Objectives:

- To gain a greater understanding of the field of oncology, pursuing the study in greater depth than was possible in the core curriculum of Internal Medicine
- To gain experience in the handling of patients with neoplastic disease under the tutelage of an experienced oncologist
- To obtain greater skill in completing the history, physical examination, review of laboratory work, and management of the patient
- To become familiar with general oncologic principles as it relates to neoplastic disease

Evaluation:

Evaluation of the student will be based on the quality of his/her patient presentations, the degree of interest that the student takes in the subject matter, and demonstration of independent study. A standard MUSM evaluation form is to be completed by the preceptor.
Infectious Disease

INM.M15, INM.S15
Duration: 2–4 Weeks
Enrollment: Max 2 Students Macon, 1 Student Savannah
Visiting Students: Macon - Yes; Savannah - No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Jeffrey Stephens, M.D. and Quyen Luu, M.D., MCCG, Macon, Georgia. 478-741-5945
Richard Roth, MD, Savannah, Georgia 912-354-5543

Contact: Macon - Ernestine Cubbage – cubbage_e@mercer.edu; 478-301-5830
Savannah - Deborah 912-354-5543.

Description:
This elective will revolve around the practice of infectious disease. Each student will participate fully in the evaluation of patients with infectious disease problems in the hospital and the clinic. They will be required to make daily rounds on the patients, which may include weekends.

Students will be given lectures on antibiotics, empiric treatment of common infectious disease problems, and AIDS. Reading of selected sections in standard infectious disease texts and pertinent articles will be required.

Objectives:
- To be able to demonstrate a systemic approach to the evaluation and management of a patient with an infectious disease problem using the problem-oriented approach
- To understand and be able to deal comfortably with the various aspects of HIV and AIDS
- To understand and manage common infectious disease problems and ancillary conditions
- To understand the principles of managing nosocomial disease
- To strengthen student capacity to effectively provide subspecialty consultation in an office and hospital setting

Evaluation:
The student’s evaluation will be based upon his performance on rounds and at the bedside, and on a comprehensive test. Special attention will be placed on the student’s ability to take a careful history, perform a complete examination, formulate a differential diagnosis and then develop a diagnostic and treatment plan based on this information. A standard MUSM evaluation form is to be completed by the preceptor.
Infectious Disease Sub-Internship

MED SUB INM.M02
MED SUB INM.S02

Duration: 4 Weeks
Enrollment: Max 2 Students Macon, 1 Student Savannah
Visiting Students: Macon - Yes; Savannah - No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Jeffrey Stephens, M.D. and Ritu Kumar, M.D., MCCG, Macon, Georgia. 478-741-5945
Richard Roth, MD, Savannah, Georgia 912-354-5543

Contact: Macon - Ernestine Cubbage – cubbage_e@mercer.edu; 478-301-5830
Savannah - Deborah 912-354-5543.

Description:
This elective will revolve around the practice of infectious disease. Each student will participate fully in the evaluation of patients with infectious disease problems in the hospital and the clinic. They will be required to make daily rounds on the patients, which may include weekends. Students will be given lectures on antibiotics, empiric treatment of common infectious disease problems, and AIDS. Reading of selected sections in standard infectious disease texts and pertinent articles will be required.

Objectives:
- To be able to demonstrate a systemic approach to the evaluation and management of a patient with an infectious disease problem using the problem-oriented approach
- To understand and be able to deal comfortably with the various aspects of HIV and AIDS
- To understand and manage common infectious disease problems and ancillary conditions
- To understand the principles of managing nosocomial disease
- To strengthen student capacity to effectively provide subspecialty consultation in an office and hospital setting

Evaluation:
The student’s evaluation will be based upon his performance on rounds and at the bedside, and on a comprehensive test. Special attention will be placed on the student’s ability to take a careful history, perform a complete examination, formulate a differential diagnosis and then develop a diagnostic and treatment plan based on this information. The preceptor will complete the standard MUSM evaluation form. A standard MUSM evaluation form is to be completed by the preceptor.
Rheumatology

INM.M16, INM.S16

Duration: 2–4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Kathy Lynn, M.D., 639 Hemlock Street, Suite 201, Macon, GA, 478-742-0483 – imrheumkcl@aol.com – Office Manager Macy Young Toland – myoung@kathyclynnmd.com
Nannette Crowley, M.D. – Coliseum Medical Associate – Office Manager Linda Beasley – nannettecrowley@cox.net
310 Hospital Drive, Suite 210 Macon, GA, 478-742-3704

Contact: Macon – Contact Dr. Lynn or Dr. Crowley at least four weeks prior to rotation to determine course times (course scheduling is dependent on scheduling of IM & FP Res.) Rachel – Fax 478-742-0439.

Savannah – Cybil Crawford 912-350-4006 Fax: 912-354-7692

Description:

This elective will expose the student to the practice of Rheumatology including inpatient hospital care and outpatient office experiences. Emphasis will be placed on physical diagnosis and medical management of patients with chronic rheumatologic diseases. Students will be expected to perform initial history taking and physical exams of office patients and document such in the patient chart. Students will formulate a working diagnosis and plan of treatment for each patient seen before presenting to the preceptor. Students will accompany the preceptor to consults at the hospital. Students will be given the opportunity to perform certain office and hospital procedures, such as arthrocentesis, based on the preceptor’s judgment of their capabilities and understanding of the procedure.

Objectives:

Through their exposure to an office-based practice, students planning on specializing in primary care fields should gain an understanding of the prevalence, diagnosis, and management of various commonly encountered Rheumatologic diseases

Evaluation:

Student’s evaluation will be based on his/her performance with office patients and clinical consults. A major emphasis will be placed on the student’s ability to perform concise history and physical examinations on patients and integrating this information into a well thought out differential diagnosis and plan of therapeutic care. The preceptor, as deemed appropriate, may implement other means of student assessment. A standard MUSM evaluation form is to be completed by the preceptor.
Cardiovascular Intensive Care Unit Critical Care/CVICU Elective

INM.M18

Duration: 4 weeks
Enrollment: Maximum 2 students
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: John A. Hudson, M.D., MCCG, Macon, Georgia

Contact: Contact four weeks prior to rotation to arrange course times and place: 478-749-5556, E-mail: Hudson.John@mccg.org

Description:

Course Goal:
To provide fourth year medical students a basic understanding of the unique aspects of critical care as applied primarily to the post-operative cardiothoracic and vascular surgery patient population in an intensive care unit setting. Opportunities for learning about the principles of surgical and medical critical care will be provided.

General Description:
This 4-week rotation will allow the student(s) to actively participate in the care of critically ill patients in conjunction with other members of the ICU team. Interaction with nurses, pharmacists, respiratory therapists, nutritionists, social workers, and other members of the multidisciplinary team will be encouraged and expected during rounds three times per week. Communication skills will be emphasized.

During the rotation the student(s) will be exposed to a wide variety of pre-op and post-op cardiothoracic patients as well as critically ill patients with non-surgical medical problems. Each student will be expected to assist with the management of one or two patients along with the critical care team. Members of the team will instruct the student(s) in basic ventilator management, hemodynamic monitoring, pre-op and post-op assessment of the cardiothoracic patient, interpretation of x-rays, evaluation of lab results, appropriate use of antibiotics, and the fundamentals of critical care. Depending upon the patient population, the technical aspects of central venous catheter insertion, bronchoscopy, cardioversion, etc. will be demonstrated with options for the student(s) to actively participate according to his/her ability. The current and evolving role of the intensivist will be discussed.

Learning Outcome Objectives:

After this rotation, students will be able to:

- Outline the accepted indications for admission to and transfer from an ICU
- Comprehend the rationale behind a multidisciplinary approach to the care of critically ill patients
- Demonstrate active and appropriate participation in the care of critically ill patients in the ICU setting utilizing the multidisciplinary team model
CV ICU Objectives (Cont’d)

- Provide appropriate airway management and understand the basics of respiratory support using a mechanical ventilator
- Recognize and treat life-threatening conditions which are common in the ICU with special emphasis on those conditions encountered in the post-op cardiothoracic surgical patient
- Provide appropriate fluid, electrolyte, and nutritional support for the critically ill patient
- Determine the etiology of hemodynamic instability in the ICU patient and provide appropriate treatment
- Demonstrate an understanding of the pathophysiology associated with the common conditions and problems encountered in the ICU
- Diagnose and manage acute renal failure
- Actively participate in the performance of procedures performed in the ICU setting under the direct supervision of the teaching faculty
- Understand common patient and family psychological issues which may have direct or indirect effects on patient care in the ICU
- Understand the most common ethical issues involved in critical care medicine including patient autonomy, consent, end-of-life care, and withdrawal of care

Duty Hours:
8AM – 4:30PM, Monday – Friday

Call:
None required

Expectations:
Report on time and dress appropriately – clean scrubs are acceptable. Be available for rounds, new admissions, and procedures. A detailed, daily progress note on each assigned patient is encouraged but not mandatory if there has been little change in a patient’s status overnight. Presentation of assigned patients during multidisciplinary rounds is expected. Attend teaching sessions and complete assigned readings.

CVICU Procedure List:
Students may have an opportunity to perform or assist with the following procedures under faculty supervision. The patient population mix will determine procedure availability.

- Central venous catheter insertion
- Insertion of pulmonary artery catheter
- Insertion of arterial monitoring catheter – either radial or femoral artery
- Insertion of chest tube
- Thoracentesis
- Orotracheal intubation
- Tracheostomy – percutaneous approach
- Insertion of Foley catheter
- Placement of enteral feeding tube
- Bronchoscopy
- Cardioversion

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Cardiovascular Intensive Care Unit Critical Care Sub-Internship

MED SUB INM.M01

Duration: 4 weeks
Enrollment: Maximum 2 students
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: John A. Hudson, M.D., MCCG, Macon, Georgia

Contact: Contact four weeks prior to rotation to arrange course times and place: 478-749-5556, E-mail: Hudson.John@mccg.org

Description:

Course Goal:
To provide fourth year medical students a basic understanding of the unique aspects of critical care as applied primarily to the post-operative cardiothoracic and vascular surgery patient population in an intensive care unit setting. Opportunities for learning about the principles of surgical and medical critical care will be provided.

General Description:
This 4-week rotation will allow the student(s) to actively participate in the care of critically ill patients in conjunction with other members of the ICU team. Interaction with nurses, pharmacists, respiratory therapists, nutritionists, social workers, and other members of the multidisciplinary team will be encouraged and expected during rounds three times per week. Communication skills will be emphasized.

During the rotation the student(s) will be exposed to a wide variety of pre-op and post-op cardiothoracic patients as well as critically ill patients with non-surgical medical problems. Each student will be expected to assist with the management of one or two patients along with the critical care team. Members of the team will instruct the student(s) in basic ventilator management, hemodynamic monitoring, pre-op and post-op assessment of the cardiothoracic patient, interpretation of x-rays, evaluation of lab results, appropriate use of antibiotics, and the fundamentals of critical care. Depending upon the patient population, the technical aspects of central venous catheter insertion, bronchoscopy, cardioversion, etc will be demonstrated with options for the student(s) to actively participate according to his/her ability. The current and evolving role of the intensivist will be discussed.

Learning Outcome Objectives:

After this rotation, students will be able to:

- Outline the accepted indications for admission to and transfer from an ICU
- Comprehend the rationale behind a multidisciplinary approach to the care of critically ill patients
- Demonstrate active and appropriate participation in the care of critically ill patients in the ICU setting utilizing the multidisciplinary team model
CVICU Sub-I Objectives (Cont’d)

- Provide appropriate airway management and understand the basics of respiratory support using a mechanical ventilator
- Recognize and treat life-threatening conditions which are common in the ICU with special emphasis on those conditions encountered in the post-op cardiothoracic surgical patient
- Provide appropriate fluid, electrolyte, and nutritional support for the critically ill patient
- Determine the etiology of hemodynamic instability in the ICU patient and provide appropriate treatment
- Demonstrate an understanding of the pathophysiology associated with the common conditions and problems encountered in the ICU
- Diagnose and manage acute renal failure
- Actively participate in the performance of procedures performed in the ICU setting under the direct supervision of the teaching faculty
- Understand common patient and family psychological issues which may have direct or indirect effects on patient care in the ICU
- Understand the most common ethical issues involved in critical care medicine including patient autonomy, consent, end-of-life care, and withdrawal of care

Duty Hours:
8AM – 4:30PM, Monday – Friday

Call:
None required

Expectations:
Report on time and dress appropriately – clean scrubs are acceptable. Be available for rounds, new admissions, and procedures. A detailed, daily progress note on each assigned patient is encouraged but not mandatory if there has been little change in a patient’s status overnight. Presentation of assigned patients during multidisciplinary rounds is expected. Attend teaching sessions and complete assigned readings.

CVICU Procedure List:
Students may have an opportunity to perform or assist with the following procedures under faculty supervision. The patient population mix will determine procedure availability.

- Central venous catheter insertion
- Insertion of pulmonary artery catheter
- Insertion of arterial monitoring catheter – either radial or femoral artery
- Insertion of chest tube
- Thoracentesis
- Orotracheal intubation
- Tracheostomy – percutaneous approach
- Insertion of Foley catheter
- Placement of enteral feeding tube
- Bronchoscopy
- Cardioversion

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude, and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Rehabilitative Medicine

INM.M20

Duration: 2-4 Weeks (Not available last two weeks of December.)
Enrollment: 2 Students
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Dr. Allison Scheetz, Dr. David Mathis, Dr. Rossana Carter
Not available last two weeks of December.

Contact: Ernestine Cubbage 478-301-5830.
Not available on Savannah Campus.

Description:

Students will participate in daily discussion of all rehab admissions and work rounds. The student will participate in all team conferences and teaching sessions to ensure appropriate therapeutic plans and safe discharges of all patients. Students will be responsible for all reading assignments of the rehab curriculum. Students will have the opportunity to actually participate in therapy sessions with their patients and family conferences of their patients. Students will become familiar with “rehab” terms including – functional independence measures (FIM), level of functions (LOF), activities of daily living (ADL); CMS – 13, etc.

Objectives:

I. Rehabilitative Medicine:

- Demonstrate an understanding of how psychiatry is integrated into the medical care system
- Modify history-taking to include information needed to initially appraise physical and psychosocial impairments that could create functional disabilities
- Develop an active problem list of functional deficiencies and discuss with family and patient
- Develop goals to maximize functional independence measures
- Develop discharge plans early and assure that environment is safe for patient and that local care is available
- Participate actively in team conference multi-disciplinary team and family conferences
- Become familiar with different clinical pathways in rehabilitative medicine
- Show compassion/empathy toward patients with new disabilities
- Act professionally at all times with all encounters with patients, families, and staff

II. Responsibilities:

- Comprehensive history and physical on each new admission assigned to the student by the faculty attending
- Daily progress notes on assigned patients
- Team conference participation (weekly)
- General medicine consults with attending faculty back-up
- Involvement with physical therapist, occupational therapist, speech pathologist and neuropsychologist on patients the students are assigned
III. Teaching:
- Daily patient management rounds with attending
- Discussion of goals of care
- Discussion of consults/daily
- Selected reading

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Hospitalist Rotation

INM.M21
Duration: 2-4 Weeks
Enrollment: 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Dr. Steve Tuck – Cogent Hospitalist Group 478-633-7550
Tuck.steven@cogenthealthcare.com

Contact: Sabrina 478-633-7550 or fowler.sabrina@cogenthmg.com

Not available on Savannah Campus

Description:

During this rotation, the student will round with the hospitalist group and will conduct patient interviews and physical examinations. The student will then document their findings and will communicate those findings to the hospitalist they are directly working with. The student will be required to formulate a diagnostic and treatment plan, perform a directed history and physical exam, as well as be responsible for writing daily progress notes. The student will be integral in the day to day patient orders and will help direct discharge planning. Patients will be selected for the student by the admitting hospitalist and the student will work in conjunction with the Cogent nurses to discharge care for their patients.

Objectives:

➢ For the student to learn how to function as a hospitalist under a less stressful and highly supervised environment.
➢ To learn about inpatient care for the adult patient from the growing field of the hospitalist.
➢ To give the student the opportunity to become intimately involved in the decision processes and care of their patients.

Evaluation:

The supervising hospitalist will perform an evaluation based upon the student’s clinical performance, attendance, knowledge, skills and attitude. A standard MUSM evaluation form is to be completed by the preceptor.
Hospitalist Sub-Internship

MED SUB INM.M04
MED SUB INM.S04
Duration: 4 Weeks
Enrollment: 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Dr. Steve Tuck – Cogent Hospitalist Group  478-633-7550
          Tuck.steven@cogenthealthcare.com
Contact: Sabrina at 478-633-7550 or
        fowler.sabrina@cogenthmg.com

Not available on Savannah Campus

Description:
During this rotation, the student will round with the hospitalist group and will conduct patient interviews and physical examinations. The student will then document their findings and will communicate those findings to the hospitalist they are directly working with. The student will be required to formulate a diagnostic and treatment plan, perform a directed history and physical exam, as well as be responsible for writing daily progress notes. The student will be integral in the day to day patient orders and will help direct discharge planning. Patients will be selected for the student by the admitting hospitalist and the student will work in conjunction with the Cogent nurses to discharge care for their patients.

Objectives:

➢ For the student to learn how to function as a hospitalist under a less stressful and highly supervised environment.
➢ To learn about inpatient care for the adult patient from the growing field of the hospitalist.
➢ To give the student the opportunity to become intimately involved in the decision processes and care of their patients.

Evaluation:
The supervising hospitalist will perform an evaluation based upon the student’s clinical performance, attendance, knowledge, skills and attitude. A standard MUSM evaluation form is to be completed by the preceptor.
Hospital Medicine - Savannah

INM.S25
Duration: 2-4 Weeks
Enrollment: 4 Students
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Dr. Larry Appel and Faculty of the Department of Hospital Medicine, MUMC, Savannah, GA
Contact: Larry Appel, M.D., Appella11@memorialhealth.com
(Two weeks prior to first day discuss schedule.)

Not available on Macon Campus

Description:

This rotation is an opportunity to get hands-on experience with close attending level supervision in the Department of Hospital Medicine. The student will have access to multiple attending hospital medicine physicians for educational and clinical supervision at all times in the hospital. Students rotating in the Department of Hospital Medicine will have the opportunity to selectively rotate in the rehabilitation area, as well. The student will function much like an intern during their shifts.

Objectives:

- To gain a comfort level in assuming primary responsibility and taking initiative in caring for medical inpatients with faculty supervision.
- To develop an approach to caring for critically ill patients
- To understand the management of the many types of problems presenting to the hospital medicine department.
- To gain experience and understanding of the function of hospitalists

Evaluation:

The Clinical Director and at least two other Hospital Medicine physicians (chosen randomly) evaluate student performance during the rotation. Students will be evaluated on knowledge, skill, performance, attendance and professionalism/attitude. A standard MUSM evaluation form will be completed by the preceptor. A standard MUSM evaluation form is to be completed by the preceptor.
**Critical Care/Intensive Care Unit Experience/ICU Elective**

**INM.M22, INM.S22**

**Duration:** 4 weeks  
**Enrollment:** Maximum 2 students  
**Visiting Students:** No  
**PCR Majority:** Yes

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:**
- **Macon Course Director:** Doug Farman, MD  
- **Savannah Course Director:** James Ramage, MD/Stephen Morris, MD/Carlton Kemp, MD/ Igor Aksenov, MD

**Contact:**
- **Macon Contact:** Dr. Farman; 478-749-5553  
- **Savannah Contact:** Genie Faircloth, RN 912-350-4750

---

**Course Goal:**

To provide fourth year medical students an understanding of the unique aspects of critical care medicine provided in the intensive care unit setting and provide an opportunity for learning about critical care medicine through active participation in patient care in the intensive care unit setting.

**General Description:**

The student will spend 4 weeks participating in the care of patients with the intensive care unit team. Students will evaluate patients, construct detailed care notes, develop comprehensive potential treatment plans, communicate with other members of the interdisciplinary care team, and discuss care plans with attending physicians on a daily basis. Each student will be expected to longitudinally follow assigned patients as well as participate in the care of other patients on the team as requested. Students will be involved with and/or aware of the unique psychosocial and ethical issues that critical illness creates for their patients and their patients’ families. Students may participate in procedural training under the direct supervision of the faculty when appropriate.

Faculty will provide teaching through informal bedside discussion, patient care rounds, and more formal sessions. Subjects will include pathophysiology of critical illness, diagnostics, therapeutics, differential diagnosis, acute care topics, ethical issues, nutrition, and other patient management topics germane to critical care medicine.

**Objectives:**

After this rotation, students will be able to:
- Outline the indications and criteria for admission to and transfer from an intensive care unit
- Actively and appropriately participate in the care of critically ill patients in an ICU setting that emphasizes a multidisciplinary team approach to patient care and values the contribution of all those participating in care of the patient
CC ICU Objectives (Cont’d)

- Manage ICU patient airways appropriately and provide adequate respiratory support
- Recognize and treat life-threatening conditions common in the ICU setting
- Provide appropriate fluid and electrolyte therapy for the critically ill ICU patient
- Provide appropriate nutritional support for the critically ill ICU patient
- Recognize and treat hemodynamic instability in the critically ill ICU patient
- Recognize the psychological aspects of critical care and critical illness on ICU patients and their families and tailor the care they provide appropriately
- Summarize the most common ethical issues involved in critical care medicine including patient autonomy, consent, end of life care, and withdrawal of care
- Participate appropriately in patient procedures performed in the intensive care setting under the direct supervision of the teaching faculty
- Accurately explain the pathophysiology associated with conditions and problems of patients commonly encountered in the intensive care unit.

Duty hours:
**Macon:** 8 AM- 4:30PM, Monday – Friday (subject to change depending on patient load, acuity, and other obligations of the attending and team);
**Savannah** – 7AM – 5PM, Monday - Friday

Call:
**Macon** – None required – available if requested by student.
**Savannah** – strongly suggest that student take call with senior resident

Expectations:
Write a daily detailed progress note on each assigned patient
- Present patients to attending and team
- Attend didactic sessions
- Complete assigned readings

Critical Care Medicine Procedure List:
Students may have the opportunity to perform the following procedures under faculty supervision. Procedure availability will highly dependent on patient load, pathology, and team composition.

- Central venous catheter placement
- Endotracheal intubations
- Arterial blood gas specimen collection
- Enteral feeding tube placement
- Arterial catheter placement
- Mechanical ventilator management
- Total parenteral nutrition management
- Thoracentesis
- Paracentesis

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Intensive Care Medicine Sub-Internship – Columbus

**MED SUB INM.C03**

<table>
<thead>
<tr>
<th><strong>Duration:</strong></th>
<th>4 weeks</th>
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</thead>
<tbody>
<tr>
<td><strong>Enrollment:</strong></td>
<td>Maximum 3 students</td>
</tr>
<tr>
<td><strong>Visiting Students:</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>PCR Majority:</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:** Sponsoring Preceptor: Dr. Vincent Nicolais.

**Contact:** Ms. Susan Davis, Medical Education Department 706-571-1145.

**Description:**

Learners will spend all their time in the ICU of Columbus Regional Medical Center, working directly with Intensivist Dr. Vincent Nicolais. They will observe the management of the critically ill, medical and surgical patient. They will have the opportunity to observe and to perform many common ICU procedures, such as Central Line placement, intubation, et al. In addition to rounding on patients, Dr. Nicolais gives didactic lectures on a daily basis.

**Objectives:**

- Learn to recognize when a patient needs critical care
- Formulate an assessment
- Derive a management plan
- Expected to develop some familiarity with ventilator management, and to become knowledgeable about the more common drugs used in the ICU setting

**Evaluation:**

Their evaluation is done exclusively by Dr. Nicolais at the end of the rotation and is subjective. Ongoing verbal feedback is also given by him throughout the rotation. He may at times assign a topic to the learner to present to the group, which he again would “grade” subjectively. There is no test or exam with this rotation. Night Call is not required.

Course must have specific evaluation criteria concerning knowledge, skills, attitude, attendance, professionalism, etc. This area must include all methods of evaluation for the course; subjective, paper, presentation, examination, etc. The preceptor will complete the standard MUSM evaluation form.
Practice Management

INM.M22
Duration: 4 Weeks
Enrollment: Maximum 8 Student
Visiting Students: Yes
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: John Maynard, University of Georgia Small Business Development Center. 706 542-6811, jmaynard@sbdc.uga.edu
Laura Gillman, UGA Archway Project, 478-552-2011 lvbland@uga.edu

Description:
The practice management rotation includes 80 hours of course study and hands-on analysis that will provide you with the skills and knowledge to evaluate potential markets and practice opportunities. The rotation will include lectures, but most of your learning will come through group work evaluating a rural medical practice. The last week of the rotation will include a one-day visit to a medical practice where the group will interview the practice owner(s) and staff, collect financial and operational data, and observe patient flow (but not provide patient care). After the visit, the group will analyze the financial and operational data and produce a report with a summary of the group’s findings and recommendations to improve efficiency and profits. The group will return to the practice to report its findings to the practice’s owner(s). At the conclusion of this rotation, you will have the ability to evaluate the value of a medical practice. This skill will allow you to determine the potential earnings for you as an associate in an existing practice or as the owner of a new practice. In addition to financial analytical proficiency, you will acquire marketing, team building and work flow expertise that will position you to help improve an existing 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 starting your own practice 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

Evaluation:

Students will be evaluated on their level of participation in class as well as their contribution to the practice evaluation, report and presentation. A standard MUSM evaluation form is to be completed by the preceptor.
<table>
<thead>
<tr>
<th>Course Number</th>
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<tr>
<td>MED.M01</td>
<td>Preparing</td>
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<tr>
<td>MED.S01</td>
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Department of Medical Education

Medical Center of Central Georgia
777 Hemlock Street
Macon, Georgia  31208
478-633-1063

Memorial University Medical Center
4700 Waters Avenue
Savannah, Georgia  31404
912-350-0392
Preparing

MED.M01, MED.S01
Duration: 4 weeks – Offered for any Phase on either Campus
Enrollment: 2 students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion all third year clerkships

Faculty: Edward C. Klatt, M.D., BMP Program Director

Contact: Dr. Klatt  912-350-0392

Description:

Students will participate in the following activities: Serve as co-tutor in a Phase of their choosing with an experienced Phase tutor, includes requisite tutorial preparation. Participate in one-on-one sessions with the course faculty on topics such as learning style, providing written and verbal feedback, preparing test items, educational theory, etc. Participate in curriculum development, curriculum management, and faculty development activities.

Course Objectives:

- To allow the senior student to participate in the group learning process from the perspective of the group tutor (facilitator)
- To enhance the senior student’s understanding of the role of the teacher in adult education
- To prepare the senior student for his/her role as teacher of medical students as he/she transitions to house officer status

Learning Objectives

- Develop group learning facilitation skills
- Develop group and individual evaluation skills
- Develop formative assessment skills – verbal and written
- Develop an understanding of his/her individual learning/teaching styles and how other learning styles interact with his/her own
- Develop an understanding of curriculum structure, curriculum governance, and administrative concerns in the delivery of the curriculum

Evaluation:

Pass/Fail. The students will receive detailed feedback on his/her strengths, weaknesses, and recommendations on action steps for improvement from the course faculty. A standard MUSM evaluation form is to be completed by the preceptor.
# Department of Medical Ethics

Mercer University School of Medicine  
1550 College Street  
Macon, Georgia 31207  
478-301-2435  

Memorial University Medical Center  
4700 Waters Avenue  
Savannah, Georgia 31404  
912-350-8076  

<table>
<thead>
<tr>
<th>Course Number</th>
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<td>ETH.M01 ETH.S01</td>
<td>Humanities and Medicine</td>
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<tr>
<td>ETH.M02 ETH.S02</td>
<td>Issues in Medical Ethics, Professionalism, and/or Health Care Delivery</td>
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<tr>
<td>ETH.M03 ETH.S03</td>
<td>Faith Influenced Ethical Issues</td>
</tr>
</tbody>
</table>
**Humanities and Medicine**

**ETH.M01**  
**ETH.S01**

**Duration:** 2 Weeks  
**Enrollment:** Maximum 3 students  
**Visiting Student:** No  
**PCR Majority:** No

**Prerequisite:** Successful completion of all third year clerkships

**Faculty**  
Macon: Richard Elliott, M.D.  
Savannah: Martin Greenberg, M.D.

**Report:** Contact preceptor at least one week prior to the start of the course.

**Contact:** Richard Elliott, M.D., 478-301-2435 or Elliott_rl@mercer.edu  
Martin Greenberg, M.D., 912-350-1735 or Greenberg_mh@mercer.edu

**Description:**

This elective provides the opportunity for the student to relate his or her medical knowledge to some topic of interest in the humanities (defined in this context as art, literature, history, philosophy, or religion). For example, the student might wish to study the understanding of death expressed in selected novels, or the relationship of the philosophical concept of being to biological existence, or the relationship of religious faith to healing. Whatever the student’s topic of choice, it is the intention to allow the student to analyze an issue in the practice of medicine from a point of view other than the biomedical or scientific. The choice of an appropriate and meaningful topic is the responsibility of the student.

**Objectives:**

- The student will identify the issue of interest in the area of humanities and medicine. The topic the student wishes to pursue must be approved by the instructor prior to the beginning of the elective  
- In consultation with the instructor, the topic will be refined as required and a program of study developed  
- As a result of the student’s study and as specified in the program of study, the student will submit a written report to the instructor

**Evaluation:**

The instructor will evaluate the report and complete a subjective evaluation which will be based on the instructor’s perception of the student’s performance, knowledge, skills, attendance, and attitude during the rotation. A standard MUSM evaluation form is to be completed by the preceptor.
Issues in Medical Ethics, Professionalism, and/or Health Care Delivery

**ETH.M02**
**ETH.S02**

**Duration:** 2 Weeks
**Enrollment:** Maximum 3 students
**Visiting Student:** No
**PCR Majority:** No

**Prerequisite:** Successful completion of all third year clerkships

**Faculty**
Macon: Richard Elliott, M.D.
Savannah: Martin Greenberg, M.D.

**Report:** Contact preceptor at least **one week prior** to the start of the course.

**Contact:**
Richard Elliott, M.D., 478-301-2435  email: Elliott_rl@mercer.edu
Martin Greenberg, M.D., 912-350-1735  email: Greenberg_mh@mercer.edu

**Description:**
This elective is designed to allow the student to investigate, in depth, a bioethical issue of the student’s choice. The student will be expected to arrive at a personal, tentative position regarding the issue based upon a review of relevant literature.

**Objectives:**
- The student will identify an issue in bioethics of personal interest. The student should secure the instructor’s approval of the issue selected before the beginning of the elective
- In consultation with the instructor, the topic will be refined as required and a plan of research developed
- The student will survey the literature relating to the topic. Interviews with individuals who might contribute to the student’s research are encouraged
- The student will formulate a position paper on the issue which must include:
  - An overview of the issue as reflected in current bioethical thought which clearly illustrates the major alternative resolutions available
  - A personal, tentative resolution of the issue which demonstrates a process of systematic analysis and the identification of personal values as they relate to the position assumed

**Evaluation:**
The instructor will evaluate the paper and complete a subjective evaluation that will be based on the Preceptor’s perception of the student’s performance, knowledge, skills, attendance, and attitude during the rotation. A standard MUSM evaluation form is to be completed by the preceptor.
Faith Influenced Ethical Issues

ETH.M03
ETH.S03
Duration: 2 Weeks
Enrollment: Macon 3 students; Savannah 1 student
Visiting Student: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty
Macon: Richard Elliott, M.D.
Savannah: Martin Greenberg, M.D.

Report: Contact preceptor at least one week prior to the start of the course.

Contact: Richard Elliott, MD - 478-301-2435 or Elliott rl@mercer.edu
Martin Greenberg, MD - 912-350-1735 or Greenberg mh@mercer.edu

Description:

How does or should faith influence ethical decision making? To pursue this, fourth year students electing this course will choose a topic of medical ethics of interest, perhaps related to further residency choice (e.g., stem cell research, abortion, transplantation, rationing health care, Baby Doe). Readings may be provided by the student or suggested by faculty, and may include scriptural passages.

Successful completion of the elective is based on a 10-12 page paper describing the clinical and ethical issues, and the influence of faith in making ethical decisions relevant to the ethical issues. Papers may, with student permission, be posted to a MUSM website on Faith and Medical ethics for reference by future students and faculty.

Objectives:

At the conclusion of this elective, the student should be able to describe the influence a particular faith might have on ethical decision-making in a particular area of medical ethics.

Evaluation:

Successful completion of this elective will depend on the acceptance by the faculty preceptor of the submitted paper. A standard MUSM evaluation form is to be completed by the preceptor.
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<th>Course Number</th>
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<td>OBG.M01</td>
<td>Sub-Internship in Obstetrics &amp; Gynecology</td>
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<tr>
<td>OBG.S01</td>
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<tr>
<td>OBG.M02</td>
<td>Clinical Gynecology/Reproductive Endocrinology</td>
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<tr>
<td>OBG.S03</td>
<td>Sub-Internship in Gynecologic Oncology</td>
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<tr>
<td>OBG.M04</td>
<td>High-Risk Obstetrics</td>
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<td>OBG.S04</td>
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<tr>
<td>OBG.M05</td>
<td>Urogynecology &amp; Pelvic Reconstruction</td>
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<tr>
<td>OBG.M06</td>
<td>Gynecology Oncology</td>
</tr>
</tbody>
</table>
Sub-Internship in Obstetrics & Gynecology

OBG.M01, OBG.S01

Duration: 4 Weeks
Enrollment: Maximum 1 Student (Not available in July)
Visiting Students: Yes (No - International Students)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: 
Macon – OB/GYN Faculty at MCCG, Macon, Georgia.
Christopher Hendry, M.D.

Savannah - OB/GYN Faculty at MUMC, Savannah, Georgia.
David B. Byck, M.D., Kimberly Crute, M.D., Melissa Crenshaw, M.D., Pamela G. Gallup, M.D., Dina Linfoot, M.D., Karen Baker, M.D., B. Darren Preuninger, M.D., Joanne K. Price, M.D., William Osborne, M.D. and Todd A. Robinson, M.D.

Contact: 
Macon – Amanda McDaniel 478-633-2644
Savannah - Report to Barbara Cox, OB/GYN Education Office, 1st Floor of Main Hospital 9:00 A.M. 912-350-1368. (Not available in July)

Description:
The student spends two weeks in daytime assignment in obstetrics and two weeks assigned to gynecology where he/she functions as an intern under supervision of residents and faculty. His/her nighttime call responsibilities are primarily to the obstetrics service. He/she is responsible for making rounds daily with attendings on the respective service and instituting patient care plans with resident and attending supervision.

Objectives:
- To solidify the educational objectives of the third year clerkship
- To provide a hands on experience on the management of Obstetrics & Gynecology patients

Evaluation:
The OB/GYN Faculty Preceptor and Residents will evaluate the student on the basis of performance, skill, knowledge, and attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Clinical Gynecology/Reproductive Endocrinology

OBG.M02
Duration: 2-4 weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: OB/GYN Faculty and Residents. MCCG, Macon, Georgia
Contact: One week prior to the start of the clerkship, contact Amanda McDaniel at 478-633-2644, OB/GYN Education Office, Not available on Savannah Campus.

Description:
The student is assigned to a member of the OB/GYN Faculty who serves as preceptor. The student will gain clinical experience in the practice of Gynecology in both inpatient and outpatient settings or have a concentration in reproductive endocrinology and Infertility.

GYN Objectives:

- To gain additional experience in the evaluation and treatment of ambulatory and inpatient Gynecology patients
- To understand the indications and risks of Office Gynecologic procedures and to perform those procedures deemed appropriate by faculty (i.e. colposcopy, endometrial biopsy, cryosurgery, cytometrics, etc.)
- To understand the evaluation and management of common inpatient problems (i.e. PID, ectopic pregnancy, etc.)
- To understand the indications for and principles of common gynecologic surgical procedures (i.e. Hysterectomy, laparoscopy-diagnostic and therapeutic, incontinence procedures, hysteroscopy, etc.)
- To understand recommended screening exams for the gynecologic patient (i.e. Pap, Mammography, Cholesterol, Colorectal, etc.)
- To understand the effectiveness and risks of various contraceptive choices
- To understand the evaluation of abnormal cervical cytology

REI and Infertility Objectives:

- To gain additional experience in the evaluation and management of ambulatory infertility patients
- To gain additional experience in the evaluation and management of patients with endocrine disorders of reproduction
- To observe assisted reproductive technology procedures such as in-vitro fertilization
- To observe embryology laboratory procedures such as in vitro fertilization, intra cytoplasmic sperm injection, assisted hatching, and cryopreservation of embryos
- To observe semen analysis and sperm preparation techniques for infertility patients
- To observe intra-uterine insemination
- To observe and participate in advanced reproductive laparoscopic and hysteroscopic surgeries
- To observe diagnostic techniques for infertility patients such as ultrasound, saline infused sonography and HSG
- To gain a better understanding of immunoassay techniques utilized to measure serum hormone levels

Evaluation:

The OB/GYN Faculty and Residents will evaluate the student on the basis of performance, skill, knowledge, and attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Sub-Internship in Gynecologic Oncology

**OBG.S03**

**Duration:** 4 Weeks  
**Enrollment:** Maximum 1 Student *(Not available in July)*  
**Visiting Students:** Yes (No - International Students)  
**PCR Majority:** Yes

<table>
<thead>
<tr>
<th>Prerequisite:</th>
<th>Successful completion of all third year clerkships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty:</td>
<td>GYN/Oncology Faculty at MUMC, Savannah, GA, James J. Burke, II, M.D. and Scott Purinton, M.D.</td>
</tr>
<tr>
<td>Contact:</td>
<td>Report to Barbara Cox, OB/GYN Education Office, 1st floor of Main Hospital at 9:00 a.m. on the first day. 912-350-1368 <em>(Not available in July)</em></td>
</tr>
</tbody>
</table>

*Not available on the Macon campus*

**Description:**

The student will participate in the care of private patients and staff patients under the supervision of the faculty member and senior resident on the Gynecologic Oncology Service. Daily review of pathology slides and x-ray examinations is integrated with rounds on inpatients. The student will scrub on all surgical procedures as a second assistant and occasionally as the first assistant. The student will dictate some of the operative reports or write a report on the records with the attending and be instructed in postoperative care, including hyper alimentation and chemotherapy. The student will be encouraged to participate in some clinical studies. Student may present in GYN/Oncology Tumor Board.

**Objectives:**

- To learn basics of care of patients with female genital cancer
- To learn care of seriously ill post-operative patients
- To learn basic of radical pelvic surgery
- To learn integration of chemotherapy and radiation therapy

**Evaluation:**

The GYN Oncology Faculty Preceptor and Residents will evaluate the student on the basis of performance, skill, knowledge, and attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
High Risk Obstetrics

OBG.M04, OBG.S04

Duration: 2-4 weeks
Enrollment: Max 1 student (Savannah - Not Available in July)
Visiting Students: Yes (No - International students)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Mark Boddy, M.D. and OB/GYN Faculty and Residents.
Savannah - High Risk OB Faculty @ MUMC, Savannah, Georgia. W. Lynn Leaphart, M.D., Arthur Baker, M.D. and Anthony B. Royek, M.D.

Contact: Macon - Contact Regina 478-738-0404. Report at 7:30 a.m. in the OB Conference Room on the first day of the elective.
Savannah – Contact Barbara Cox 912-350-1368 Report to OB/GYN Education Office, 1st Floor of Main Hospital 9:00A.M. (Not available in July)

Description:
The student is assigned as member of the high-risk team. The student will gain clinical experience in the practice of Obstetrics with an emphasis on the management of the high-risk pregnancy.

Objectives:
- To understand the basics of antenatal care in the normal pregnancy
- To understand the normal physiological changes in pregnancy
- To recognize high risk factors in pregnancy
- To understand the pathophysiology, antepartum, intrapartum, and post-partum management of common high-risk pregnancy complications
- To be involved in the management of ambulatory and hospitalized high risk patients
- To recognize the importance of patient education in managing high risk patients
- Students will be expected to perform a presentation on a high-risk patient

Evaluation:
The OB/GYN Faculty Preceptor and Residents will evaluate the student on the basis of performance, skill, knowledge, and attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Urogynecology & Pelvic Reconstruction

OBG.M05
Duration: 2 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Faculty: Paul Kross, M.D., Director of Urogynecology; and Michael Makii, M.D.
Contact: Samantha Jordan 478-633-2643
478-633-1821
Not available on Savannah Campus

Description:

The student will spend two weeks with Dr. Kross functioning as a sub–intern. The student will participate in all aspects of the service including the inpatient & outpatient (office) settings, as well as the operating room.

Objectives:

- To learn the basics of Urogynecology
- To learn the basis of anatomic defects & how to correct them
- To learn both medical & surgical therapies, as well as other non-invasive technologies

Evaluation:

Dr. Kross will evaluate the student on the basis of performance, skills, knowledge & attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Gynecology Oncology

OBG.M06
Duration: 2 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Faculty: Gary Eddy, Sr., Director of Gynecology Oncology
Contact: 478-633-6090

Not available on Savannah Campus

Description:
The student will spend 2-4 weeks with the GYN Oncology team functioning as a sub–intern. The student will participate in all aspects of the service including the inpatient & outpatient (office) settings, as well as the operating room.

Objectives:

➢ To learn the basic care of patients with female genital cancer
➢ To learn the care of seriously ill post-operative patients
➢ To learn basics of radical pelvic surgery
➢ To learn integration of chemotherapy, radiation therapy and hospice care

Evaluation:
Dr. Eddy and residents on service will evaluate the student on the basis of performance, skills, knowledge & attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
## Department of Pathology

Medical Center of Central Georgia  
777 Hemlock Street  
Macon, Georgia 31208  
478-633-1329

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Anatomic Pathology

PAT.M01
Duration: 4 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Edgar Pierce, M.D., Eugene Battles, M.D., Pathology Department. MCCG, Macon, Georgia
Contact: Eugene Battles, M.D., MCCG, 478-633-1329, Robert S. Donner, M.D., MUSM, 478-301-2560.

Description:

This elective is designed to give the student experience in the examination of morphologic changes of disease and the relation of those changes to the clinical course of the patient. It will center on daily gross and microscopic examination of surgical and cytology specimens. Clinicopathological correlation will be emphasized and literature research encouraged. This real time experience will be augmented by study of archival material designed to emphasize a variety of disease processes involving different major organ systems.

Objectives:

Upon completion of this elective, the student will be able to:

- Identify the gross morphologic features that characterize various disease processes
- Utilize the microscope to identify microscopic morphologic features of tissue slides that characterize various disease processes
- Characterize and discuss the pathophysiology of certain disease processes, with emphasis on common disease processes, particularly neoplasia
- Describe and explain the clinicopathologic correlation of certain disease conditions; and
- Identify the role of the anatomic pathologist and the importance of surgical pathology and cytology in patient care

Evaluation:

The student will be evaluated according to the preceptor’s observations of the student performance and on archival histologic sections. A standard MUSM evaluation form is to be completed by the preceptor.
Laboratory Medicine

**PAT.M02**

**Duration:** 2 weeks  
**Enrollment:** Maximum 1 student  
**Visiting Students:** No  
**PCR Majority:** No

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:** Edgar Pierce, M.D., William T. Pope, Ph.D., Eugene Battles, M.D., Pathology Department, MCCG, Macon, Georgia

**Contact:** Eugene Battles, M.D., MCCG, 478-633-1329  
Robert S. Donner, M.D., MUSM, 478-301-2560

**Description:**

Laboratory Medicine will provide experience in the clinical laboratory of the Department of Pathology at the Medical Center of Central Georgia. Interpretation and correlation of laboratory data will be stressed. The student will gain an understanding of the sections of the laboratory including chemistry, microbiology, blood bank, and hematology. Clinical pathologic correlation will be emphasized and will be accomplished by patient rounds and chart review under the direction of the course preceptors and medical technologists. The student will be expected to review reference articles, textbooks, and selected case material, which will be available in the department.

**Objectives:**

Upon completion of this elective, the student will be able to:

- Identify the diagnostic tests and to correlate the tests with the clinical disorders related to myocardial ischemia and infarction, hepatocellular and renal diseases, and abnormal conditions involving lipid metabolism and immunoglobulin production;
- Use a microscope, study sets and current hematology case material to identify and differentiate normal and abnormal cellular components of blood, and to correlate the cells with specific disease conditions;
- Identify micro-organisms involved with infections at different body sites, to interpret antibody sensitivity tests, and to distinguish normal and abnormal antinuclear antibody tests;
- Identify the tests that are appropriate for screening for coagulation disorders and to correlate test results with the clinical condition of the patient; and
- Identify and interpret the tests involved in typing and cross-matching procedures for blood transfusion and antibody identification, to differentiate the types of transfusion reactions, and to distinguish the appropriate blood components for transfusion.

**Evaluation:**

A comprehensive evaluation will follow completion of the elective and will be based on subjective evaluation by the course preceptors. A standard MUSM evaluation form is to be completed by the preceptor.
Clinical Pathology Autopsy Program – Georgia Bureau of Investigation

MED PAT.S03
Duration: 4 Weeks
Enrollment: 1 Student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Jamie Downs, M.D. – Coastal Regional Medical Examiner, GBI, Savannah, GA.
Contact: Dr. Downs – Jamie.Downs@gbi.ga.gov or 912-921-5903

Not available on Macon Campus

Description:
To be determined upon further discussion with Dr. Downs.

Objectives:

➢ To be determined upon further discussion with Dr. Downs.

Evaluation:

The supervising examiner will provide an evaluation based upon the student’s clinical performance, attendance, knowledge, skills and attitude. The preceptor will complete a standard MUSM student evaluation form.
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Pediatric Sub-Internship

PED.M01, PED.S01

Duration: 4 weeks
Enrollment: Maximum 1 student (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Christy R. Peterson, M.D.; Department of Pediatrics attending MCCG physicians – Children’s Hospital
Savannah - Department of Pediatrics MUMC attending physicians; Children’s Hospital

Contact: Macon - Teresa Beard 478-633-7500
Savannah - Jackie Robinson 912-350-7847

Description:
The student will perform as an acting intern. He/she will assume primary care responsibility for staff patients admitted to the Children’s Hospital under the direct supervision of the faculty. The student will participate in the evaluation and management of emergency pediatric problems. Emphasis will be placed on applying basic principles to achieve optimal patient care. Students will report directly to the ward. Student will take night call during which he/she will participate in ward and ER calls under the supervision of the intern and/or resident on call.

Objectives:

- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the area of hospital-based General Pediatrics
- To gain better exposure to the role and responsibilities of a pediatric intern
- To develop a differential diagnosis and make recommendations for establishing the diagnosis and providing the appropriate therapy in an in-patient setting and in the emergency room
- To gain proficiency in common diagnostic and therapeutic procedures
- To interact with hospital personnel such as: pediatric social workers, child life specialists, psychologists, etc. This is to broaden the exposure of the student to the dynamics of the child, the family, and psychosocial considerations
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child's illness and treatment

Evaluation:

Subjective evaluation will be completed on the student by the assigned faculty and residents. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Hematology-Oncology

PED.M02, PED.S02

Duration: 4 weeks/Macon  2-4 weeks/Savannah
Enrollment: Maximum 1 student/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Dr. Zishwas Sakhalkar, Department of Pediatrics, MCCG, Savannah - J. Martin Johnston, M.D., Cynthia Gonzales, M.D., & John Whittle, M.D., Pediatric Hematology/Oncology Clinic

Contact: Macon – Dr. Zishwas Sakhalkar 478-633-1104 , 2753 or 2694 Must Be Pre-Approved Savannah - Cheryl Douse 912-350-8194. Report at 8:00 A.M. on first day.

Description:
This elective provides the opportunity to evaluate and follow children and young adults with hematologic or oncologic disorders, as well as adults with pediatric malignancies in both in-patient and out-patient settings. 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 out-patient clinic. Students will be encouraged to follow newly diagnosed patients for evaluation and continuity, as time allows. Additionally, established patients will provide a broad perspective of the various diagnoses in both hematology and oncology. 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. Likewise, general knowledge of childhood cancer including incidence, prognosis, and integrated multi-disciplinary care will be provided. Lastly, competence with interpretation of the CBC, peripheral blood smear, and bone marrows will be established.

Objectives:

➢ To increase the student’s knowledge base, clinical skills, and decision making capabilities in the care of children with hematologic and oncologic disorders
➢ To evaluate the patient with hematologic and oncologic abnormalities
➢ To interpret the peripheral blood smears of infants and children
➢ To gain exposure to common diagnostic and therapeutic procedures
➢ To communicate with families in a manner that demonstrates compassion and assures parental comprehension of the child’s illness and treatment

Evaluation:
Subjective evaluation will be completed based upon the student’s medical knowledge, communication skills, interest in patients, enthusiasm, and presentation skills. A standard MUSM evaluation form is to be completed by the preceptor.
Neonatology

PED.M03
Duration: 2-4 weeks
Enrollment: Maximum 1 student / (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Mitch Rodriguez, M.D., Anjali P. Parish, M.D. MCCG – Neonatal Intensive Care Unit, Macon, Georgia. Student must have pre-approval from Dr. Rodriguez as elective is only offered at certain times of the year.
Debbie Templeton 478-633-6835;
Dr. Rodriguez 478-633-1299 (Patty)
Not available on Savannah Campus

Description:
This elective is to advance the student’s knowledge, experience, and skills in the care of low birth weight and critically ill newborns that are managed in the Neonatal Intensive Care Nursery at the Medical Center of Central Georgia. The students will perform as externs and share primary care responsibilities with the resident for a selected number of infants with a variety of life-threatening problems. Emphasis will be placed on stabilization of stressed newborns, methods of evaluation and options of treatment. The student is expected to make daily rounds with the attendings and present patients’ problems and plan of management. He/she is required to present a seminar on a neonatology topic. The student will have opportunities to participate in all diagnostic and therapeutic procedures (e.g. lumbar puncture, umbilical artery catheterization, etc.).

Objectives:
- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the care of the critically ill newborn
- To gain proficiency in common diagnostic and therapeutic procedures
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child’s illness and treatment

Evaluation:
Subjective evaluation will be completed on the student based upon the student’s medical knowledge, interest in patients, and communication skills. A standard MUSM evaluation form is to be completed by the preceptor.
Neonatology Sub-Internship

MED SUB PED.M02
Duration: 4 weeks
Enrollment: Maximum 1 student / (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Mitch Rodriguez, M.D., Anjali P. Parish, M.D., Schuyler Mims, M.D. - MCCG Neonatal Intensive Care Unit, Macon, Ga. Student must have pre-approval from Dr. Rodriguez as elective is only offered at certain times of the year.
Debbie Templeton 478-633-6835 or
Dr. Rodriguez 478-633-1299 (Patty)

Contact: Not available on Savannah Campus

Description:
This elective is to advance the student’s knowledge, experience, and skills in the care of low birth weight and critically ill newborns that are managed in the Neonatal Intensive Care Nursery at the Medical Center of Central Georgia. The students will perform as externs and share primary care responsibilities with the resident for a selected number of infants with a variety of life-threatening problems. Emphasis will be placed on stabilization of stressed newborns, methods of evaluation and options of treatment. The student is expected to make daily rounds with the attendings and present patients’ problems and plan of management. He/she is required to present a seminar on a neonatology topic. The student will have opportunities to participate in all diagnostic and therapeutic procedures (e.g. lumbar puncture, umbilical artery catheterization, etc.).

Objectives:
- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the care of the critically ill newborn
- To gain proficiency in common diagnostic and therapeutic procedures
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child’s illness and treatment

Evaluation:
Subjective evaluation will be completed on the student based upon the student’s medical knowledge, interest in patients, and communication skills. A standard MUSM evaluation form will be completed by the preceptor.
Ambulatory Care Pediatrics

PED.M04, PED.S04
Duration: 2-4 weeks
Enrollment: Maximum 1 student/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

| Prerequisite: | Successful completion of all third year clerkships |
| Faculty: | Macon - Edward Clark, M.D. and Department of Pediatrics, attending physicians MCCG; Children’s Health Center |
| | Savannah – Donna Evans, M.D., Children’s Hospital, Outpatient Center |
| Contact: | Macon – Debbie Templeton 478-633-6835 |
| | Savannah – Jackie Robinson 912-350-7847 |

Description:
The student is expected to attend the General Pediatrics Clinic at the Children’s health Center or the office of one of the pediatricians for four and one-half days each week. He/she will perform problem-oriented evaluations on sick children. The student will perform well-child care evaluations, sports physicals, and outpatient pre-operative evaluations. He/she will present the evaluations for discussion to the clinical preceptor. The student will attend the pediatric residents’ daily conferences.

Objectives:

➢ To provide the student with the opportunity of in-depth exposure to ambulatory pediatric problems and well-child care

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty. Attendance is mandatory on all clinical days unless excused by the clinical clerkship director. A standard MUSM evaluation form is to be completed by the preceptor.
Child Development/Behavioral Pediatrics

PED.M05

Duration: 4 weeks
Enrollment: Maximum 1 student/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of required third year clerkships.

Faculty: Elizabeth Young, M.D. – Children’s Health Center, Macon

Contact: Office 478-633-7600

Description:

This branch of Pediatrics has seen rapid growth during the past ten years as improved diagnosis and therapeutic modalities have become available. The student will participate in an active private practice and learn about management of patients on a one-to-one level. The patient population will be limited to children with developmental problems, handicaps, limitations, school difficulties, and behavioral disorders. This discipline bridges the gaps between general pediatrics, neurology, and psychiatry.

Objectives:

- To provide the student with the opportunity of in-depth exposure to child development and behavioral disorders
- To enable the student to work with children and their families when confronted with behavioral problems, school-related difficulties, and physical or emotional limitations
- To teach the student different approaches to the complexity of long-term illness along with interactions between family, school, and community resources

Evaluation:

Subjective evaluation will be completed on the student by the assigned faculty. The student will be evaluated on clinical knowledge, enthusiasm, patient/family/peer interactions, and participation. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Specialty

PED.M06, PED.S06

Duration: 2-4 weeks
Enrollment: Maximum 2 students/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of required third year clerkships.
Faculty: Department of Pediatrics attending physicians. MCCG – Children’s Health Center and selected clinics, Macon, Georgia.

Contact: Macon – Clinical Medical Education Coordinator, 478-633-1063
Savannah - Medical Student Program Coordinator, 912-350-8076 for preceptor information.

Descriptions:
The student is expected to attend the selected specialty Clinic at the Children’s Health Center and/or the office of one of the specialized pediatricians for four and one-half days each week. He/she will perform problem-oriented evaluations on sick children. The student will perform evaluations, plan long-term care, and perform follow-up evaluations. He/she will present the evaluations for discussion to the clinical preceptor. The student will have assigned readings and must be prepared to discuss the readings with the preceptor. The student will attend the pediatric residents’ daily conferences.

Objectives:

- To provide the student with the opportunity of in-depth exposure to one or more pediatric specialties either because of personal interest or to make up for a specific weakness
- To teach the student how to search the medical literature and present critical analysis of the reading materials

Evaluation:

A standard MUSM evaluation form is to be completed by the preceptor. Subjective evaluation will be completed on the student by the assigned faculty. 

**Attendance is mandatory on all clinical days unless excused by the clinical preceptor.**

Subjects selected in the past include Hematology/Oncology, Endocrinology, Adolescent Medicine, Newborn Nursery, Child Development, Special Needs Children, Crescent House (Child Abuse), Gastroenterology, Sports Medicine, and Asthma/Allergy. Other topics are available dependent on faculty preceptor availability.

PED.S09 Pediatric GI
PED.S10 Pediatric Allergy
PED.S11 Pediatric Neurology
PED.S12 Pediatric Radiology
Pediatric Sedation Sub-Internship

MED SUB PED.M01
Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
III. FACULTY: Macon: Division of Pediatric Critical Care attendings
IV. CONTACT: Macon: Lowell Clark, MD

Description:
This course introduces the student to the principles and practice of pediatric procedural sedation. Methods include completion of pertinent syllabus and reading materials and clinical experience sedating children for various procedures including: imaging (MRI, CT); endoscopy; oncologic procedures; and, minor surgical procedures.

Objectives:
- perform the pre-sedation history and physical assessment
- become familiar with commonly used medications for pediatric sedation
- identify, calculate dosing, and prepare individual medications under direct supervision of the intensivist
- understand and employ rescue techniques for the sedated child

Evaluation:
The preceptor, on the basis of performance, skill, knowledge and attitude, will evaluate the student and complete the standard MUSM evaluation form.
Pediatric Cardiology

PED.M07, PED.S07
Duration: 2–4 weeks
Enrollment: Macon: Maximum 1 student - Limited Offering (Must Be Pre-Approved)
Savannah: 4 students per year
Visiting Students: Macon – Yes, Savannah - No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon – William Ham, M.D., Brian Cardis, M.D., Wesley Blackwood, M.D.; MCCG – Sibley Heart Center Cardiology
Savannah - Blake Long, M.D., Kenneth Burch, M.D., John Pastorek, M.D. Savannah’s Children’s Heart Center – Provident Bldg., Suite 512

Contact: Macon – Stephanie Hicks – hicks@kidsheart.com 478-743-4622 (Availability limited in June through August and December)
Savannah - Dr. Long 912-350-8085 (Blocked June-August and December)

Description:
The rotation is conducted in the private office of a pediatric cardiologist. The student is involved in the initial assessment of consultations and admission work-ups of patients requiring hospitalization. Time is allotted for reading from a provided syllabus as well as with the cardiologist for echocardiogram and electrocardiogram reviews. The student on this elective prepares a 30-minute informal review of a pediatric cardiology topic.

Objectives:

➢ To introduce the student to a basic understanding of pediatric cardiac diseases and the tools available for evaluation
➢ To evaluate a child with a murmur, interpret a pediatric electrocardiogram, and understand the physiology of acyanotic and cyanotic heart disease in infants and children

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty. Evaluated areas will be participation, clinical ability to formulate information, and enthusiasm. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Critical Care/ Intensive Care-Elective Course (PICU)

PED.M08, PED.S08
Duration: 2-4 weeks
Enrollment: Maximum 1 student/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships.

Faculty:
Macon - Lowell C. Clark, M.D., Roger Delacruz, M.D., Umesh Narsinghani, M.D., Katy Preissig, M.D.; MCCG – Children’s Hospital

Savannah – Tara Lemoine, D.O., Thomas W. McKee, M.D.; Mary Carol Lytle, M.D., Laura Vose, D.O. - PICU, 2nd Floor Main Hospital

Contact:
Macon – Cynthia Loudin: 478-633-1413; Dr. Narsinghani, 478-633-1104
Savannah – Cheryl Douse 912-350-8194

Description:
This elective is designed to advance the student’s knowledge, experience, and skills in the care of the critically ill child. Emphasis will be placed on pathophysiology and management of common pediatric intensive care problems including acute respiratory failure, sepsis, poisoning, and trauma. Principles of monitoring will be stressed. The student will work directly at bedside with the preceptor and have the opportunity, where appropriate, to gain experience in invasive procedures. The student will make daily rounds and function as an extern. Major topics to be covered include: Fluid and electrolytes, closed head injury, seizures, respiratory distress/arrest, shock (cardiogenic and non-cardiogenic), renal physiology, and sepsis.

Objectives:
- To advance the student’s knowledge of the general principles of pediatric intensive care
- To provide introductory experience in the procedures of intensive care medicine
- Macon - To provide the student with expanded and refined technical skills as applied in the PICU
- Savannah - To provide the student with an introductory experience in the evaluation and management of critically-ill children

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty and residents. Evaluation will cover the student’s participation, clinical ability to formulate and apply treatment plans, enthusiasm, and attendance. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Critical Care/ Intensive Care Sub-Internship (PICU)

MED SUB PED.M03
MED SUB PED.S03

Duration: 4 weeks
Enrollment: Maximum 1 student/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships.

Faculty: Macon - Lowell C. Clark, M.D., Roger Delacruz, M.D., Umesh Narsinghani, M.D., Katy Preissig, M.D.; MCCG – Children’s Hospital

Savannah – Tara Lemoine, D.O., Thomas W. McKee, M.D.; Mary Carol Lytle, M.D., Laura Vose, D.O. - PICU, 2nd Floor Main Hospital

Contact: Macon – Cynthia Loudin: 478-633-1413; Dr. Narsinghani, 478-633-1104
Savannah – Cheryl Douse 912-350-8194

Description:
This elective is designed to advance the student’s knowledge, experience, and skills in the care of the critically ill child. Emphasis will be placed on pathophysiology and management of common pediatric intensive care problems including acute respiratory failure, sepsis, poisoning, and trauma. Principles of monitoring will be stressed. The student will work directly at bedside with the preceptor and have the opportunity, where appropriate, to gain experience in invasive procedures. The student will make daily rounds and function as an extern. Major topics to be covered include: Fluid and electrolytes, closed head injury, seizures, respiratory distress/arrest, shock (cardiogenic and non-cardiogenic), renal physiology, and sepsis.

Objectives:
- To advance the student’s knowledge of the general principles of pediatric intensive care
- To provide introductory experience in the procedures of intensive care medicine
- Macon - To provide the student with expanded and refined technical skills as applied in the PICU
- Savannah - To provide the student with an introductory experience in the evaluation and management of critically-ill children

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty and residents. Evaluation will cover the student’s participation, clinical ability to formulate and apply treatment plans, enthusiasm, and attendance. A standard MUSM evaluation form is to be completed by the preceptor.
Child Advocacy

PED.S09
Duration: 2 weeks
Enrollment: Maximum 1 student (Must Be Pre-Approved)
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Donna Evans, M.D.
Contact: Jackie Robinson 912-350-7847. Students will report to Pediatric Education office at 8:30 AM on first day.

Not available on Macon Campus

Description:

This elective is designed to teach medical students the physician’s role in child protection in the hospital and outpatient setting. The student will understand the scope of physical and sexual abuse as it relates to outpatient and inpatient practice of pediatric medicine. The medical student will participate in inpatient and outpatient consultations for child physical and sexual abuse. The student will be given a notebook of articles and DC Rom of lectures for their review during the rotation. The student will also spend time observing at the Coastal Children’s Advocacy Center where child victims are interviewed for evidentiary purposes. In addition, the student will attend the multidisciplinary team staffing where all cases of physical and sexual abuse are reviewed each week. The student will observe and learn how the physician examiner interfaces with the community resources and the criminal justice system. The student will also accompany Dr. Evans to any court cases that she has to testify at during the rotation. During the rotation, the student will observe and participate in all aspects of child protection from initial referral to disposition in court or weekly staffing. If no consults are available, the elective will be primarily a reading elective.

Objectives:

- The student will gain experience in taking a medical history as it pertains to a child abuse case
- The student will become familiar with medical literature in the area of child abuse and neglect
- The student will know how to conduct an examination for physical and sexual assault
- The student will experience the interaction of professionals during multidisciplinary staffing for child abuse cases
- The student will become familiar with the role of the medical expert witness in child abuse court testimony

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A posttest to assess knowledge is given at the end of the rotation. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Ear, Nose and Throat, Head and Neck Surgery

PED.S10
Duration: 2 – 4 weeks
Enrollment: 1 student (rotation unavailable if Pediatric resident already scheduled)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of third year Pediatric clerkship
Faculty: Michael D. Poole, MD, PhD, Georgia Ear Institute, Savannah, GA.
Contact: Contact Elizabeth Ray 912-644-0706 or Betty Cashwell 912-644-0712.

Not available on Macon Campus

Description:
The course is designed to give an in-depth experience for students who anticipate a career in pediatrics, otolaryngology, or family practice. The student will gain extensive experience in the ENT exam of children, generally becoming more proficient in the diagnosis and management of ear disease than most senior pediatric residents. Most students gain significant insight into inter-personal skills that enhance interactions with children and families. Office experience is enhanced by use and exposure to our high definition endoscopic video systems that are used in ear, nasal, and laryngeal exams. Exposure to hearing testing and modern audiometric evaluations is available.

Objectives:
- Improve diagnostic and management approaches to common pediatric ENT problems such as acute otitis media, chronic otitis media with effusion, adenoid and tonsillar diseases, sleep apnea, allergic rhinitis, and laryngomalacia, head and neck infections and abscesses.
- Become comfortable with the pediatric head and neck exam
- Gain a thorough understanding of pediatric ENT anatomy, especially as it can be viewed endoscopically.
- Participate in pediatric ENT surgical cases commensurate with the interests of the students.
- Understand the common types of hearing losses and methods of testing

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the rotation. A standard MUSM evaluation form is to be completed by the preceptor.
### Department of Psychiatry

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<th>Course Number</th>
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<tbody>
<tr>
<td>PSY.M03</td>
<td>Consultation Liaison Psychiatry</td>
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<tr>
<td>PSY.S03</td>
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<td>PSY.M05</td>
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<td>PSY.S05</td>
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<td>PSY.M06</td>
<td>Family Therapy</td>
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<td>PSY.S07</td>
<td>Substance Abuse</td>
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<tr>
<td>PSY.M08</td>
<td>Mind Body Medicine</td>
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</tbody>
</table>
In-Patient Psychiatry Sub-Internship

MED SUB PSY.M01
Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon - Grady Carter, M.D.,
Contact: Macon - Clerkship Coordinator 478-301-2107

Description:
This rotation takes place on the in-patient psychiatric unit of MCCG. The student will function as a sub-intern under the direct supervision of the attending psychiatrist. The student will evaluate admitted patients, do history and physicals and daily progress notes, develop treatment plans, write orders, and participate in the psychiatric unit treatment team.

Objectives:
- Evaluate newly admitted patients and develop a differential diagnosis and diagnostic formulation utilizing all five diagnostic axes.
- Develop and implement a pharmacologic and psychosocial treatment plan under the supervision of the attending.
- Increase knowledge base concerning psychiatric illnesses and their treatment.
- Participate on an inter-disciplinary treatment team

Evaluation:
Supervisors’ will evaluate based on observations of student’s clinical evaluations and presentations and willingness to pursue additional readings on timely topics. A standard MUSM evaluation form will be completed by the preceptor.
Consultation Psychiatry

PSY.M03, PSY.S03

Duration: 2–4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:

**Macon** - Grady Carter, M.D., Paige Tench, M.D. Contact preceptor at least one week prior to the start of the course.

**Savannah** - Stephen Yost, DO, Behavioral Medicine, Savannah, GA

Contact:

**Macon** - Clerkship Coordinator 478-301-2107
**Savannah** - Barbara Roundtree 912-350-2664

Description:

The student will learn to diagnose and treat psychiatric disorders in complex medically ill patients. The student will round in the mornings with the Psychiatric Consult Service of the Medical Center of Central Georgia and Memorial University Medical Center. The student will research topics of interest and meet 1 to 2 hours in a week with the preceptor to discuss them.

Objectives:

- Increase knowledge base and awareness of psychiatric syndromes as they present in medical and surgical patients
- Increase knowledge base of the common medical causes of delirium, dementia, depression, and of the common psychosomatic syndromes
- Increase awareness of the psychosocial sequelae of life-threatening medical and surgical disease
- Increase awareness of the principles of behavioral medicine including stress management, pain management, and behavioral approaches to medication non-compliance, and other unhealthy behaviors
- Improve skills in patient interviewing, behavioral management of psychiatric disorders in medical/surgery patients, and in psychopharmacologic interventions in such patients

Evaluation:

Supervisors’ observations of student’s clinical evaluations and presentations and willingness to pursue additional readings on timely topics. A standard MUSM evaluation form is to be completed by the preceptor.
**Consultation Psychiatry Sub-Internship**

**MED SUB PSY.M02**  
**MED SUB PSY.S02**

<table>
<thead>
<tr>
<th>Duration:</th>
<th>4 Weeks</th>
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<tbody>
<tr>
<td>Enrollment:</td>
<td>Maximum 1 student</td>
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<tr>
<td>Visiting Students:</td>
<td>No</td>
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<tr>
<td>PCR Majority:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:**  
**Macon** - Grady Carter, M.D., Paige Tench, M.D.  
Contact preceptor at least one week prior to the start of the course.  
**Savannah** - Stephen Yost, DO, Behavioral Medicine, Savannah, GA

**Contact:**  
**Macon** - Clerkship Coordinator 478-301-2107  
**Savannah** - Barbara Roundtree 912-350-2664

**Description:**

The student will learn to diagnose and treat psychiatric disorders in complex medically ill patients. The student will round in the mornings with the Psychiatric Consult Service of the Medical Center of Central Georgia and Memorial University Medical Center. The student will function as a sub-intern. The student will evaluate patients, write History and Physicals and daily progress notes, develop treatment plans, write orders, and interact with the patient care team.

**Objectives:**

- Increase knowledge base and awareness of psychiatric syndromes as they present in medical and surgical patients
- Increase knowledge base of the common medical causes of delirium, dementia, depression, and of the common psychosomatic syndromes
- Increase awareness of the psychosocial sequela of life-threatening medical and surgical disease
- Increase awareness of the principles of behavioral medicine including stress management, pain management, and behavioral approaches to medication non-compliance, and other unhealthy behaviors
- Improve skills in patient interviewing, behavioral management of psychiatric disorders in medical/surgery patients, and in psychopharmacologic interventions in such patients

**Evaluation:**

Supervisors’ will evaluate based on observations of student’s clinical evaluations and presentations and willingness to pursue additional readings on timely topics. A standard MUSM evaluation form will be completed by the preceptor.
Addiction Recovery

PSY.M05, PSY.S05

Duration: 2–4 Weeks
Enrollment: Maximum 2 Students
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Dan E. Phillips, M.D. 478-301-4068
phillips_de@mercer.edu
Savannah - Recovery Place, 835 E. 65th Street,

Contact:
Macon – Clerkship Coordinator: 478-301-2107 Contact preceptor at least one week prior to the start of the course.
Savannah - Leslie Backus: 912-355-1440

Description:
The student will round with Dr. Dan Phillips (on the Macon rotation) on the Chemical Dependency Service at the Medical Center of Central Georgia and participate in out-patient clinics at Mercer Health Systems, 655 First St., Macon, Georgia.

The student will report to Recovery Place (on the Savannah rotation) and participate as scheduled by the preceptor.

Objectives:

➢ To increase student knowledge in recognizing and understanding addictive disease
➢ Students will work with inpatients as well as outpatients
➢ Emphasis will be placed on enhancing diagnostic skills and the ability to recognize denial and deal with it effectively

Evaluation:

Student will be required to make a case presentation to the preceptor and appropriate staff. A standard MUSM evaluation form is to be completed by the preceptor.
**Family Therapy**

**PSY.M06**

Duration: 2–4 Weeks  
Enrollment: Maximum 1 Student  
Visiting Students: No  
PCR Majority: Yes

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**Prerequisite:** Successful completion of all third year clerkships

**Faculty:** Dr. Bowden Templeton

**Contact:** Clerkship Coordinator 478-301-2107. Contact preceptor at least four weeks prior to the start of the course

*Not available on Savannah Campus*

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**Description:**
This course addresses the importance of personal relationships to health and illness by focusing on the integration of Family Therapy within medical practice. The student will explore family dynamics that induce patient stress, and how, when chronic, stress is responsible for many of the problems in primary care practice. Opportunity will be given for the student to analyze various approaches to assessment, analysis, diagnosis, and referral, as well as the beginning phases of treatment of dysfunctional families in a medical practice as the student does co-therapy in the outpatient setting. The student will be exposed to physicians who use various treatment modalities as well as those who refer patients’ families to family therapists. Focus will be on decision-making as it affects the integration of therapy into practice. The student will be exposed to a variety of presenting problems including dysfunctional family presenting with somatic complaints relating to family interaction. Opportunities exist for students to tailor the experience to their specific needs.

**Objectives:**

- To learn four theoretical approaches to family dysfunction and identify how each views assessment, diagnosis, and treatment
- To be able to discuss various levels of primary care physician treatment and/or referral due to family dysfunction
- To redefine illness in biopsychosocial terms with emphasis on the emotionally dysfunctional family presenting with somatic complaints
- To understand the stress response as one mechanism through which family relationships contribute to health and illness

**Evaluation:**
The student and the faculty member will tape and review student’s co-therapy family sessions, analyzing family dysfunction from the four theoretical approaches. The student will outline how he/she will integrate family therapy into his/her primary care practice. The student is also encouraged to develop a unique “project” which reflects his or her own interests and needs. A standard MUSM evaluation form is to be completed by the preceptor.
Substance Abuse

PSY.S07
Duration: 2 Weeks
Enrollment: 2 students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Savannah - Recovery Place, 835 E. 65th Street,
Contact: Savannah - Leslie Backus: 912-355-1440

Not available on Macon Campus

Description:
The course on Substance Abuse and Substance Abuse Treatment is taught at MCCG in Macon and at The Recovery Place, Inc., in Savannah.

The course lasts for two weeks. The goal of this course is to make students aware of the presence and complexity of the disease of substance abuse/dependence. The students will be instructed in the intake process, the process of in-patient detoxification, and the medical implications of the different drugs of abuse. The students will be expected to take part in our patient education process and also to participate in the therapy groups which are led by Substance Abuse Professionals. The students will be given the opportunity to speak individually with the medical director in Savannah, Dr. Frank Johnston who has many years of experience in substance treatment and Psychiatry.

Objectives:
It is our expectation that the student, no matter what specialty they plan on, will be provided an awareness of the alarming presence of drug dependence and the need for specialized care for these individuals.

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Mind-Body Medicine

PSY.M11
Duration: 2 weeks
Enrollment: Maximum 1 Student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Bowden Templeton, Ph.D. and Paige Tench, M.D.
         Clerkship Coordinator 478-301-2107. Contact preceptor at least four weeks prior to the start of the course
         Not available on Savannah Campus

Contact:

Description:
Studies show that between 60% and 90% of all physician visits are for stress-related complaints. Physical health is influenced by thoughts, feelings, and behaviors, and conversely, thoughts, feelings, and behaviors can be influenced by physical symptoms. Social factors are important as well. Based on these inseparable connections between the mind and the body, mind/body medicine integrates modern scientific medicine, psychology, nutrition, exercise physiology and belief to enhance natural human healing capacities. Mind/body medicine has substantial demonstrated effectiveness in helping thousands of men and women reduce the stress that can cause or exacerbate conditions such as heart disease, diabetes, gastrointestinal disorders, chronic pain, depression, anxiety and more. Students will learn about the stress response as the main pathway though which mind and body interact and be exposed to a variety of scientifically proven interventions incorporating the relaxation response, positive coping strategies (cognitive behavioral therapy), physical activity, nutrition, and social support. Students will read relevant literature and work clinically in outpatient and inpatient settings.

Objectives:

- To be able to discuss the stress response as a pathway between mind and body and its relevance to chronic illness.
- To be able to discuss the relaxation response as a mechanism for reducing the effects of stress specifically as it relates to chronic illnesses commonly seen in medical practice.
- To develop skill in assessing patient physical and emotional symptoms as they interact in chronic illness.
- To develop skill in inducing the relaxation response.

Evaluation:
Faculty members will evaluate student learning by direct observation of clinical encounters and case report. A standard MUSM evaluation form is to be completed by the preceptor.
### Course Number

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<tr>
<th>Course Number</th>
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<tbody>
<tr>
<td>RAD.S02</td>
<td>Diagnostic Radiology</td>
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</tbody>
</table>
Diagnostic Radiology

RAD.S02
Duration: 4 Weeks
Enrollment: Maximum 3 Students/ Course unavailable June and July.
Visiting Students: Yes (No - International Students)
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Deborah Conway, M.D. MUMC, Radiology Dept., Savannah
Miriam Lariscy, 912-350-7394. Report at 8:30 a.m. the first day of rotation Course unavailable June and July.

Not available on Macon Campus

Description:
During the senior elective in Diagnostic Radiology, the student will spend the first two weeks studying plain radiology by reviewing films on all boxes daily with the staff radiologists. This is done from 8:00 a.m. to 5:00 p.m. He/she is expected to participate in all conferences (except for physics), primarily as an observer, but this is altered based on individual ability. The third week will be spent on cross-sectional imaging, three days on CT and two days on ultrasound. The fourth week may be spent on MR, Angio-Interventional, Nuclear Medicine, Ultrasound, or CT.

Required reading includes Basic Radiology, Felson’s Chest which we will loan to the student during their rotation. Please return any materials loaned to you prior to your departure. Adequate time is allotted for review of teaching case files.

The student is also required to do independent study and present a 15-minute lecture to the radiology department at the conclusion of the rotation. Students are encouraged to make their presentation on a topic of interest to them based on personal areas of interest.

Objectives:
To learn available options in radiologic evaluation of clinical problems and see the functions of the radiologist in this diagnostic process (In such a short time only an introduction to basic radiology can be expected.)

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
### Course Number & Course Name

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<th>Course Number</th>
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<td>Advanced General Surgery</td>
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<td>SUR.M02/SUR.S02</td>
<td>Trauma Surgery</td>
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<td>SUR.M03</td>
<td>Surgical Oncology</td>
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<td>SUR.M04/SUR.S04</td>
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<td>SUR.M05/SUR.S05</td>
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<td>SUR.M06/SUR.S06</td>
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<td>SUR.M14/SUR.S14</td>
<td>Private Practice of General Surgery</td>
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<td>SUR.M15</td>
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<td>SUR.M16</td>
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<td>SUR.S18</td>
<td>Breast Surgery</td>
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<td>SUR.S19</td>
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<td>SUR.S20</td>
<td>Surgical Oncology/Gastrointestinal Surgery</td>
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<td>SUR.S21</td>
<td>Clinical Research in Cancer Surgery</td>
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<td>SUR.M22</td>
<td>(STICU) Critical Care/Intensive Care Unit</td>
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<td>SUR.M23</td>
<td>Rural Private Practice of General Surgery (Cordele)</td>
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<tr>
<td>SUR.M24</td>
<td>Clinical Orthopaedics and Sports Medicine</td>
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Advanced General Surgery

SUR.M01, SUR.S01
Duration: 2-4 Weeks
Enrollment: Macon Max 1 student; Savannah Max 2 students
Visiting Students: No
PCR Majority: Yes

| Prerequisite: | Successful completion of all third year clerkships |
| Faculty: | **Macon** - Dr. Ayoub Thompson, and General Surgery Faculty at MCCG; Dr. Earl Mullis and Dr. John Williams  
**Savannah** - General Surgery Faculty, MUMC |
| Contact: | **Macon** – MCCG – Elizabeth Bunn 478-633-2058; Mullis & Williams: Laurie or office manager Beth Thrasher 478-746-2770. thrasher.beth@gmail.com; Fax 478-746-0000  
**Savannah** – Linsey McDougal 912-350-5902  Report at 8AM on the first day of the rotation |

Description:

The student is assigned to a member of the Surgery Faculty who serves as preceptor. The goal is to provide a well-rounded experience in surgery, which includes General, Cardiac, and Thoracic. Each student will be assigned to a surgical teaching service and will work with the residents on that service under the supervision of the attending surgeon and faculty. The student will be allowed in-hospital call every third or fourth night and given the opportunity for evaluation of emergency surgical consultations early in the patients hospital stay in order to prepare the student for internship. In Savannah, student will be assigned to a specific faculty member.

Objectives:

- To provide a well-rounded experience in surgery
- To improve acumen in history taking, physical examination, and diagnostic modalities as applied to surgery
- To scrub on surgical cases so as to improve skill, knowledge, and technique or surgical procedures
- To learn what gross pathology is presented at surgery
- To learn to evaluate preoperatively the status of the patient as regards his ability to withstand the contemplated procedure and anesthetic
- To assist in postoperative care such as dressings, drains, gastrointestinal tubes, venous access lines, etc.
- To learn proper treatment and evaluate the results and follow-up care of surgical patients
- To better prepare for a surgical internship

Evaluation:

The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Advanced General Surgery Sub-Internship

MED SUB SUR.M01
MED SUB SUR.S01

Duration: 4 Weeks
Enrollment: Macon Max 1 student; Savannah Max 2 students
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: 
Macon - Dr. Ayoub Macram, and General Surgery Faculty at MCCG; Dr. Earl Mullis and Dr. John Williams
Savannah - General Surgery Faculty, MUMC

Contact: 
Macon – MCCG – Elizabeth Bunn 478-633-2058; Mullis & Williams: Laurie or office manager Beth Thrasher 478-746-2770. thrasher.beth@gmail.com; Fax 478-746-0000
Savannah – Linsey McDougal 912-350-5902 Report at 8AM on the first day of the rotation

Description:

The student is assigned to a member of the Surgery Faculty who serves as preceptor. The goal is to provide a well-rounded experience in surgery, which includes General, Cardiac, and Thoracic. Each student will be assigned to a surgical teaching service and will work with the residents on that service under the supervision of the attending surgeon and faculty. The student will be allowed in-hospital call every third or fourth night and given the opportunity for evaluation of emergency surgical consultations early in the patients hospital stay in order to prepare the student for internship. In Savannah, student will be assigned to a specific faculty member.

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- To provide a well-rounded experience in surgery
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- To scrub on surgical cases so as to improve skill, knowledge, and technique or surgical procedures
- To learn what gross pathology is presented at surgery
- To learn to evaluate preoperatively the status of the patient as regards his ability to withstand the contemplated procedure and anesthetic
- To assist in postoperative care such as dressings, drains, gastrointestinal tubes, venous access lines, etc.
- To learn proper treatment and evaluate the results and follow-up care of surgical patients
- To better prepare for a surgical internship

Evaluation:

The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
Senior Student Trauma Rotation

SUR.M02, SUR.S02

Duration: 2-4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Yes (Must Be Approved by Chief of Trauma Services)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Dennis Ashley, M.D.
Savannah - M. Gage Ochsner, M.D.

Contact: Macon – Ginny Land 478-633-1199. Contact one week prior to the start of the rotation
Savannah – Linsey McDougal 912-350-5902. Report 7:30 AM on the first day of the rotation to the Chief Resident of Trauma Services.

Description:
The student will be assigned to the Chief of the Trauma Service and be responsible to him/her. 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 pre-hospital care, to include experience on both helicopter and ground EMS services, is included. (Helicopter/ground EMS service not included in Savannah).

Objectives:

➢ To give the student an understanding of the principles and practice of care of the multiple injured patient
➢ To participate in operations in order to improve skill, knowledge, and technique of surgical procedures
➢ The student should gain an understanding of the importance of the trauma care system development in pre-hospital care of the trauma patient

Evaluation:

Evaluation will be by direct observation by the preceptor. A standard MUSM evaluation form is to be completed by the preceptor.
Senior Student Trauma Sub-Internship

MED SUB SUR.M07
MED SUB SUR.S07

Duration: 4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Yes *(Must Be Approved by Chief of Trauma Services)*
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: *Macon* - Dennis Ashley, M.D.
*Savannah* - M. Gage Ochsner, M.D.

Contact: *Macon* – Ginny Land  478-633-1199. Contact one week prior to the start of the rotation
*Savannah* – Linsey McDougal 912-350-5902. Report 7:30 AM on the first day of the rotation to the Chief Resident of Trauma Services.

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Objectives:

- To give the student an understanding of the principles and practice of care of the multiple injured patient
- To participate in operations in order to improve skill, knowledge, and technique of surgical procedures
- The student should gain an understanding of the importance of the trauma care system development in pre-hospital care of the trauma patient

Evaluation:
Evaluation will be by direct observation by the preceptor. The preceptor will complete the standard MUSM evaluation form.
Surgical Oncology

SUR.M03
Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Southeastern Surgical Oncology - A. Conforti, M.D. MCCG, Macon, Georgia

Contact: Contact: Jenny Walsh - 478-745-3363 or 478-633-4027
jwalsh@southeasternsurgicaloncolgy.com

Not available on Savannah Campus

Description:

The student will make daily rounds, see consultations, scrub on all surgical procedures, and have follow-up experience with ambulatory office patient care. Preceptor will give assigned readings.

Objectives:

To provide an exposure to surgical oncology through office and operating room exposure

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Cardiac Surgery

SUR.M04, SUR.S04

Duration: 2-4 Weeks
Enrollment: Maximum 1 student/ Course unavailable July and December
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Dr Stevick and Physicians of Macon Cardiovascular Institute, 575 First Street, Macon
Savannah - Robert E. Jones, M.D., ACI Surgical Associates Savannah, 912-305-2299

Contact: Macon – Donna Malcolm 478-743-9762, Fax 478-746-6612
d.malcom@maconcvi.org
Savannah--912-305-2299 or Clerkship Coordinator 912-350-8076

Course unavailable July & December. Limit 4 students per year.

Description:

The student is assigned to a cardiothoracic and vascular surgery team at the Medical Center of Central Georgia and/or at other area hospitals and Memorial University Medical Center where the preceptor’s patients are cared for. A goal is to provide a comprehensive experience in cardiac surgery, thoracic and vascular surgery. The rotation can be tailored to the desire of the student with a focus on cardiac, thoracic, or vascular surgery. This would include preoperative evaluation, angiographic diagnosis, surgical techniques in cardiothoracic and vascular surgery, and postoperative care of these patients.

Objectives:

- To provide a well-rounded experience to the surgical care of cardiac disease
- To improve the acumen in history taking, physical exam, and diagnostic modalities as applied to patients with cardiac diseases, which are amenable to surgery
- To participate in operations in order to improve skill, knowledge, and technique of surgical procedures
- To understand the clinical correlation of gross pathology in cardiac disease
- To learn to evaluate the preoperative status of the patient as regards to their ability to undergo the planned procedure and anesthesia
- To assist in postoperative care
- To learn proper treatment, evaluation, and result of long-term follow-up of patients with cardiac disease, with an emphasis on rehabilitation

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Cardiac Surgery Sub-Internship

MED SUB SUR.M02
MED SUB SUR.S02

Duration: 4 Weeks
Enrollment: Maximum 1 student/ Course unavailable July and December
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Dr Stevick - Macon Cardiovascular Institute
575 First Street, Macon, GA
Savannah - Robert E. Jones, M.D., ACI Surgical Associates Savannah
912-305-2299

Contact: Macon – Donna Malcolm 478-743-9762, Fax 478-746-6612
d.malcom@maconcvi.org
Savannah– 912-305-2299 or Clerkship Coordinator 912-350-8076

Course unavailable July & December. Limit 4 students per year.

Description:
The student is assigned to a cardiothoracic and vascular surgery team at the Medical Center of Central Georgia and/or at other area hospitals and Memorial University Medical Center where the preceptor's patients are cared for. A goal is to provide a comprehensive experience in cardiac surgery, thoracic and vascular surgery. The rotation can be tailored to the desire of the student with a focus on cardiac, thoracic, or vascular surgery. This would include preoperative evaluation, angiographic diagnosis, surgical techniques in cardiothoracic and vascular surgery, and postoperative care of these patients.

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- To improve the acumen in history taking, physical exam, and diagnostic modalities as applied to patients with cardiac diseases, which are amenable to surgery
- To participate in operations in order to improve skill, knowledge, and technique of surgical procedures
- To understand the clinical correlation of gross pathology in cardiac disease
- To learn to evaluate the preoperative status of the patient as regards to their ability to undergo the planned procedure and anesthesia
- To assist in postoperative care
- To learn proper treatment, evaluation, and result of long-term follow-up of patients with cardiac disease, with an emphasis on rehabilitation

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
Colorectal Surgery

SUR.M05, SUR.S05

Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Macon – No; Savannah – Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty:
Macon - Douglas Brewer, M.D., and Brian Bansidhar, D.O.
MCCG, Macon, Georgia.
Savannah - S. Alan Lord, M.D., Patrick Hammen, M.D.,
Savannah Colon and Rectal Surgery, Ste 103, Provident Bldg.,
Savannah, Georgia

Contact:
Macon - 478-471-1943
Savannah - Janet Barcafar 912-350-8621.

Description:
The goal is to provide a comprehensive experience in colorectal surgery which includes
diagnosis of anal/rectal disease, inflammatory diseases of the colon and their extra colonic
manifestations, endoscopy of the lower G.I. tract, as well as treatment of common injuries.

Objectives:
- To provide a well-rounded experience to the surgical care of colorectal disease
- To improve the acumen in history taking, physical exam, and diagnostic modalities as
  applied to colorectal surgery
- To participate in operations in order to improve skill, knowledge, and technique of surgical
  procedures
- To understand the clinical correlation of gross pathology in colon and rectal disease
- To learn to evaluate the preoperative status of the patient as regards to their ability to
  undergo the planned procedure and anesthesia as well as adaptation following surgery
- To assist in post-operative care
- To learn proper treatment, evaluation, and result of long term follow-up of patients,
  particularly long-term evaluation of patients with colon and rectal diseases, both
  inflammatory and malignant

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the
student. The degree of responsibility will be determined by student progress during the clerkship.
A standard MUSM evaluation form is to be completed by the preceptor.
Neurosurgery

SUR.M06, SUR.S06

Duration: 2-4 Weeks
Enrollment: Max 1 student
Visiting Students: Macon- No; Savannah- Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon – Georgia Neurosurgical Institute: J. S. Robinson, M.D. and Associates, MCCG, Macon (Hospital Nurse: Laurie)

Savannah - J. Underwood Howington, M.D., Will Thompson, M.D., Neurological Institute, 4 Jackson Blvd., Savannah

Contact: Macon – Cindy 478-743-7092 x259; Fax 478-743-0523
Clerkship Coordinator 478-633-1063

Savannah - Laurie Neeley 912-355-1010

Description:

The student is assigned to a member of the Neurosurgery Faculty who will serve as preceptor. The student is assigned responsibility for selected patients for neurological work-up and for daily evaluation and progress notes. He/she is expected to attend daily conferences. Subjects will be assigned for teaching sessions with a member of the Neurosurgery Faculty. He/she is expected to scrub and observe neurological surgical procedures.

Objectives:

- To allow the student to familiarize himself/herself with the more common neurological and neurosurgical disorders
- To gain confidence and competence in performing an adequate neurological examination
- To become familiar with the various neurosurgical investigative methods, indications, and limitations of each
- To learn proper treatment, evaluation, and diagnosis of nervous system trauma, neoplasm, vascular disease, hydrocephalus, and congenital disorders

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Neurosurgery Sub-Internship

MED SUB SUR. M10
MED SUB SUR. S10

Duration: 4 Weeks
Enrollment: Max 1 student
Visiting Students: Macon-No; Savannah-Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
- Macon – Georgia Neurosurgical Institute: J.S. Robinson, M.D.
- Savannah - J. Underwood Howington, M.D., Will Thompson, M.D., Neurological Institute, 4 Jackson Blvd., Savannah

Contact:
- Macon – Cindy 478-743-7092 x259; Fax 478-743-0523
  Clerkship Coordinator 478-633-1063
- Savannah - Laurie Neeley 912-355-1010

Description:
The student is assigned to a member of the Neurosurgery Faculty who will serve as preceptor. The student is assigned responsibility for selected patients for neurological work-up and for daily evaluation and progress notes. He/she is expected to attend daily conferences. Subjects will be assigned for teaching sessions with a member of the Neurosurgery Faculty. He/she is expected to scrub and observe neurological surgical procedures.

Objectives:
- To allow the student to familiarize himself/herself with the more common neurological and neurosurgical disorders
- To gain confidence and competence in performing an adequate neurological examination
- To become familiar with the various neurosurgical investigative methods, indications, and limitations of each
- To learn proper treatment, evaluation, and diagnosis of nervous system trauma, neoplasm, vascular disease, hydrocephalus, and congenital disorders

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form will be completed by the preceptor.
Orthopaedic Surgery

SUR.M08, SUR.S08

Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Timothy R. Stapleton, M.D. MCCG, Macon, GA.
Savannah – Mark Jenkins, D.O., Chatham Orthopedics

Contact:
Macon – Tammy Pruitt– 478-743-3000 x117; tpruitt@fs-ortho.com
Savannah - Mark Jenkins, D.O. Chatham Orthopedics. Contact Maribeth Evans 912-355-6615

Description:
The student is assigned to a member of the Orthopaedic Faculty who will serve as preceptor. The student will be exposed to hospital, clinic, and office practice. The student will attend the orthopaedic conferences and will be assigned didactic subjects, and these will be discussed daily with members of the orthopaedic faculty.

Objectives:

- To learn the indications and methods of evaluation of orthopaedic conditions
- To learn the problems of acute and chronic musculoskeletal disease and congenital anomalies, their diagnosis and treatment
- To learn the diagnosis and proper management of acute and chronic trauma of an orthopaedic nature including fractures, disclosures, and sprains
- To learn the proper interpretation of x-rays and other diagnostic procedures
- To learn disability evaluation in regard to orthopaedic conditions
- To scrub on surgical cases so as to improve skill, knowledge, and technique of surgical procedures under the direction of the preceptor
- To assist in post-operative care such as dressings, casts, splints, braces, etc., under supervision of preceptor
- To follow assigned patients throughout their hospitalization and to make rounds with the preceptor

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Orthopaedic Surgery Sub-Internship

MED SUB SUR.M03
MED SUB SUR.S03

Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Timothy R. Stapleton, M.D. MCCG, Macon, GA.
Savannah – Mark Jenkins, D.O., Chatham Orthopedics

Contact:
Macon – Tammy Pruitt– 478-743-3000 x117; tpruitt@fs-ortho.com
Savannah - Mark Jenkins, D.O. Chatham Orthopedics. Contact Maribeth Evans 912-355-6615

Description:
The student is assigned to a member of the Orthopaedic Faculty who will serve as preceptor. The student will be exposed to hospital, clinic, and office practice. The student will attend the orthopaedic conferences and will be assigned didactic subjects, and these will be discussed daily with members of the orthopaedic faculty. There are also Mercer athletics/sports medicine opportunities available, depending on season/ time of year.

Objectives:
- To learn the indications and methods of evaluation of orthopaedic conditions
- To learn the problems of acute and chronic musculoskeletal disease and congenital anomalies, their diagnosis and treatment
- To learn the diagnosis and proper management of acute and chronic trauma of an orthopaedic nature including fractures, disclosures, and sprains
- To learn the proper interpretation of x-rays and other diagnostic procedures
- To learn disability evaluation in regard to orthopaedic conditions
- To scrub on surgical cases so as to improve skill, knowledge, and technique of surgical procedures under the direction of the preceptor
- To assist in post-operative care such as dressings, casts, splints, braces, etc., under supervision of preceptor
- To follow assigned patients throughout their hospitalization and to make rounds with the preceptor

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
Urology

SUR.M09
Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon - Joshua Perkel, M.D., MCCG, Macon, Georgia.
Contact: Macon – 478-745-6576

Not available on Savannah Campus

Description:

The student is assigned to a member of the Urology Faculty who will act as preceptor. A weekly routine will expose students to all aspects of Urology including both inpatient and outpatient care. The student will gain experience with cystoscopic, laparoscopic, robotic, minimally invasive and open urologic surgeries.

Objectives:

- Gain an understanding of the diagnosis and treatment of urologic diseases
- Identify one area of urology of special interest and learn more detailed aspects about that area (i.e., kidney stones, incontinence, prostate cancer)
- Learn proper placement of a Foley catheter

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Otolaryngology and Head & Neck Surgery

SUR.M10, SUR.S10
Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes
Prerequisite: Successful completion of all third year clerkships

Faculty
Macon - ENT Center, Dr. Jerles; Macon, Georgia.
Savannah - ENT Associates Michael Zoller, M.D., Savannah, GA

Contact
Macon – Melinda Bivins at 478-743-8953 or 478-745-6576; Fax 478-741-9556, mbivins@theentcenter.com Contact at least one week prior to the start of the rotation.
Savannah - ENT Associates 912-351-3030, 5201 Frederick St, Savannah, Georgia

Description:
The student is assigned to a member of the Otolarynology Faculty who serves as preceptor. The student will have the opportunity to get a broad sampling of the specialty of Ear, Nose, and Throat, as well as Head and Neck Surgery. The student will be exposed to an office practice daily with emphasis on adequate performance of an ENT examination, especially the use of fiberoptic evaluation of the larynx (indirect laryngoscopy). There will also be allergy testing as well as audiological evaluation and disposition of hearing loss and balance problems and exposure to surgical ENT procedures.

Objectives:
- To be exposed to practice of Otolaryngology and head and neck surgery in children and adults
- To learn how to properly conduct an ENT examination to include the use of diagnostic and treatment instruments
- Observe fiberoptic laryngoscopy and learn anatomic appearance and abnormality of the upper airway
- To learn the value and procedure of performing allergy testing and hyposensitization
- To learn the value and procedure of audiological examination and the proper disposition of hearing loss and balance problems
- To have surgical exposure and insight into ENT problems
- To know the indications and to participate in the performance of plastic surgery of the nose as well as cosmetic surgery
- To learn how to properly diagnose and treat ENT and head and neck problems

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Otolaryngology and Head & Neck Surgery Sub-Internship

MED SUB SUR.M09
MED SUB SUR.S09

Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty
Macon - ENT Center, Dr. Jerles; Macon, Georgia.
Savannah - ENT Associates Michael Zoller, M.D., Savannah, GA

Contact
Macon – Melinda Bivins at 478-743-8953 or 478-745-6576; Fax 478-741-9556. mbivins@theentcenter.com Contact at least one week prior to the start of the rotation.
Savannah - ENT Associates 912-351-3030, 5201 Frederick St, Savannah, Georgia

Description:
The student is assigned to a member of the Otorynolaryngology Faculty who serves as preceptor. The student will have the opportunity to get a broad sampling of the specialty of Ear, Nose, and Throat, as well as Head and Neck Surgery. The student will be exposed to an office practice daily with emphasis on adequate performance of an ENT examination, especially the use of fiberoptic evaluation of the larynx (indirect laryngoscopy). There will also be allergy testing as well as audiological evaluation and disposition of hearing loss and balance problems and exposure to surgical ENT procedures.

Objectives:
- To be exposed to practice of Otolaryngology and head and neck surgery in children and adults
- To learn how to properly conduct an ENT examination to include the use of diagnostic and treatment instruments
- Observe fiberoptic laryngoscopy and learn anatomic appearance and abnormality of the upper airway
- To learn the value and procedure of performing allergy testing and hyposensitization
- To learn the value and procedure of audiological examination and the proper disposition of hearing loss and balance problems
- To have surgical exposure and insight into ENT problems
- To know the indications and to participate in the performance of plastic surgery of the nose as well as cosmetic surgery
- To learn how to properly diagnose and treat ENT and head and neck problems

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Sedation Sub-Internship

MED SUB PED.M01
Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
V. FACULTY: Macon: Division of Pediatric Critical Care attendings
VI. CONTACT: Macon: Lowell Clark, MD

Description:

This course introduces the student to the principles and practice of pediatric procedural sedation. Methods include completion of pertinent syllabus and reading materials and clinical experience sedating children for various procedures including: imaging (MRI, CT); endoscopy; oncologic procedures; and, minor surgical procedures.

Objectives:

- perform the pre-sedation history and physical assessment
- become familiar with commonly used medications for pediatric sedation
- identify, calculate dosing, and prepare individual medications under direct supervision of the intensivist
- understand and employ rescue techniques for the sedated child

Evaluation:

The preceptor, on the basis of performance, skill, knowledge and attitude, will evaluate the student and complete the standard MUSM evaluation form.
Pediatric Surgery

SUR.M11, SUR.S11

Duration: 2-4 Weeks
Enrollment: 1 student
Visiting Students: No – Macon; Yes - Savannah
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Don K. Nakayama, M.D., Dept Surgery Chair MCCG
Savannah - William Boswell, M.D., David Carney, M.D., Savannah Pediatric Surgery, Ste 511 PMOB, Savannah, GA

Contact: Macon – Liz Jennings Jennings.elizabeth@mccg.org 478-633-1367, or Dr. Nakayama: nakayama.don@mccg.org
Savannah - Barbara Paul 912-350-7914 or 912-350-7707 for scheduling information.

Description:

Attend regular student activities of the Department of Surgery. Make twice daily ward rounds with Pediatric Surgery residents. See pre- and post-operative patients in the pediatric surgery office. Perform supervised in-patient pediatric surgery consultations. Participate in the operative care of patients. There will be required reading from selected texts.

Objectives:

To provide an intense experience with both the common and rare surgical problems of children which will be of benefit for students interested in a surgical, pediatric, or family medicine career

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Surgery Sub-Internship

MED SUB SUR.M04
MED SUB SUR.S04

Duration: 4 Weeks
Enrollment: 1 student
Visiting Students: No – Macon; Yes – Savannah
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Don K. Nakayama, M.D., Dept Surgery Chair MCCG
Savannah - William Boswell, M.D., David Carney, M.D., Savannah Pediatric Surgery, Ste 511 PMOB, Savannah, GA

Contact:
Macon – Liz Jennings Jennings.elizabeth@mccg.org 478-633-1367, or Dr. Nakayama: nakayama.don@mccg.org
Savannah - Barbara Paul 912-350-7914 or 912-350-7707 for scheduling information.

Description:
Attend regular student activities of the Department of Surgery. Make twice daily ward rounds with Pediatric Surgery residents. See pre- and post-operative patients in the pediatric surgery office. Perform supervised in-patient pediatric surgery consultations. Participate in the operative care of patients. There will be required reading from selected texts.

Objectives:
To provide an intense experience with both the common and rare surgical problems of children which will be of benefit for students interested in a surgical, pediatric, or family medicine career

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form will be completed by the preceptor.
Plastic Surgery

SUR.M12, SUR.S12

Duration: 2-4 weeks
Enrollment: Maximum 1 student/preceptor
Visiting Students: Macon – No, Savannah - Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Roy Powell, MD, Christopher L. McLendon, MD, Paul Syribeys: at Renaissance Plastic Surgery; Ronald A. Freeman, MD 
Savannah – John Paletta, M.D., The Georgia Institute for Plastic Surgery, 5361 Reynolds St, Savannah

Contact: Macon - Renaissance Plastic Surgery Kay Huff 478-474-2200 x 100, khuff@RPSMD.com 4030 Riverside Park Blvd., Macon; Jennifer for Dr. Freeman 420 Charter Blvd. Macon 478-474-5700
Savannah – Patty or Alicia 912-355-8000

Description:

The student is assigned to a plastic surgery team. The goal is to provide a comprehensive experience in plastic surgery. This would include preoperative evaluation, radiographic diagnosis, etc.

Objectives:

- To provide a well-rounded exposure to the specialized care of plastic surgery and the common problems encountered
- To improve acumen in history taking, physical examination, and diagnostic modalities as applied to surgery
- To participate in operations to improve skill, knowledge, and technique of surgical procedures
- To learn to evaluate preoperatively the status of the patient as regards his ability to withstand the contemplated procedure and anesthetic
- To assist in postoperative care

Evaluation:

The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Hand Surgery

SUR.M13
Duration: 4 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Waldo Floyd, III, M.D., John Sapp, M.D., Guy Foulkes, M.D.
Contact: Paige Snow 478-745-4206

Not available on Savannah Campus

Description:

The student is assigned to a hand surgery team. The goal is to provide a comprehensive experience in hand surgery. This would include preoperative evaluation, radiographic diagnosis, etc.

The student will become familiar with the operative approach to hand problems. The degree of responsibility assumed by the student will be determined by progress made during the clerkship.

Objectives:

- To provide a well-rounded exposure to the specialized care of hand surgery and the common problems encountered
- To improve acumen in history taking, physical examination, and diagnostic modalities as applied to surgery
- To participate in surgical cases so as to improve skill, knowledge, and technique of surgical procedures
- To learn to evaluate preoperatively the status of the patient as regards his ability to withstand the contemplated procedure and anesthetic

Evaluation:

The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Private Practice of General Surgery

SUR.M14, SUR.S14
Duration: 2-4 Weeks
Enrollment: Maximum 2 students per site
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Dr. Ayoub, Dr. Thompson, Dr. Mullis, Dr. Williams.
Savannah – Qualified General Surgery Practices, Savannah

Contact:
Macon - Dr. Thompson – Elizabeth Bunn 478-633-2058; Dr. Mullis – Beth Thrasher 478-746-2770 thrasher.beth@gmail.com or 478-633-7101
Savannah – Clerkship Coordinator 912-350-8076

Description:
The student is assigned to a member of a private general surgical group practice in Georgia. The goal is to provide a well-rounded experience in private practice/office basis of general surgery. Each student will work in a clinical environment with group physicians who will serve as preceptors.

Objectives:
- To provide a well-rounded experience in surgery
- To improve acumen in history taking, physical examination, and diagnostic modalities as applied to surgery
- To scrub on surgical cases so as to improve skill, knowledge, and technique or surgical procedures
- To learn what gross pathology is presented at surgery
- To learn to evaluate preoperatively the status of the patient to withstand the contemplated procedure and anesthetic
- To assist in postoperative care
- To learn proper treatment and evaluate the results and follow-up care of surgical patients

Evaluation:
The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Orthopaedic/Musculoskeletal Research

SUR.M15
Duration: 2-4 weeks
Enrollment: Maximum 2 students
Visiting Students: Yes
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Guy D. Foulkes, M.D.
Contact: Paige Snow or Michelle Davis 478-745-4206, Fax: 478-745-4637

Not available on Savannah Campus

Description:

This course is designed to provide the student with an independent research experience. The student will be actively involved in the research project design, execution, and statistical analysis. The goal will be to produce a manuscript suitable for publication in the orthopaedic or hand literature. The research project would ideally fit into the broad categories of orthopaedic or hand surgery and can include clinical or basic science topics. Research design can be prospective or retrospective based on the time available by the student. Student should be prepared to spend time outside the parameters of the course to revise their manuscript in preparation for publication. The preceptor will be available at all steps of the process for both guidance and assistance.

Objectives:

- To provide a solid experience in research for the future specialist or primary care physician
- To enhance the student’s appreciation for the direct application of the scientific method
- To develop an area of expertise
- To provide experience in writing, preparation, and publication of a manuscript
- Student is expected to present the results of their research at a local, regional, or national forum under the sponsorship of the Department of Surgery

Evaluation:

The student will be evaluated on the basis of performance, skill, knowledge, and attitude. A standard MUSM evaluation form is to be completed by the preceptor.
Surgical Oncology Sub-Internship

MED SUB SUR.M06

Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Southeastern Surgical Oncology - A. Conforti, M.D. MCCG, Macon, Georgia

Contact: Contact: Jenny Walsh - 478-745-3363 or 478-633-4027
jwalsh@southeasternsurgicaloncolgy.com

Not available on Savannah Campus

Description:

The student will make daily rounds, see consultations, scrub on all surgical procedures, and have follow-up experience with ambulatory office patient care. Preceptor will give assigned readings.

Objectives:

To provide an exposure to surgical oncology through office and operating room exposure.

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
Surgical Research

SUR.M16
Duration: 4 weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Dr. Wang, MUSM Research Lab, Dr. VanDeWater

Contact: Dr. Zhongbiao Wang 478-301-2095 or email wang_2@mercer.edu at least one week prior to the start of clerkship
Dr Van De Water 478-633-6197

Not available on Savannah Campus

Description:

The course in surgical research is designed to provide an independent research experience for students in the Department of Surgery. The goal is to provide a comprehensive experience in the development of research project design, execution, and reporting. The student will be afforded the opportunity to work with a senior investigator in the Department of Surgery or possibly in collaboration with a co-investigator in the Division of Basic Sciences. The types of surgical research activities, which will be available within the department, will include:

- Detailed literature research techniques regarding surgical problems. A thorough grounding in the evaluation of the statistical data used in the surgical literature and an approach to the development of publications centering on literature review and analysis. Specific emphasis in this regard will be given to the area of clinical decision making, the construction of decision trees, the assignment of utility of outcome of surgical procedures and the computerized approach to case teaching surgical problems.
- The area of prospective clinical research that is on-going in the department at the time with particular emphasis on nutritional studies and oncologic patient management.
- Additionally, students may be afforded the opportunity of animal laboratory research based on specific surgical problem objectives, particularly in the area of oncology research using animals to dissect out the problem of species variability and response to chemical carcinogenesis.

Objectives:

- To provide a well-rounded base for the appreciation of research within a clinical specialty.
- To improve the student’s ability to use the scientific model with regard to development of hypotheses, review of the literature, construction of problems, execution of research, collection of data, statistical analysis, conclusion, and publication.
- To develop an in-depth knowledge of the particular area of currently active surgical research as identified in the active surgical literature.
- To understand the importance of the research approach to practicing medicine and its implication for future development of physician education.
- It is anticipated that students who select this elective early in the year may have an opportunity to attend and present the results of their research at a national meeting under the sponsorship of the Department of Surgery.

Evaluation:

The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. A standard MUSM evaluation form is to be completed by the preceptor.
Breast Surgery

SUR.S18
Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Ray Rudolph, MD, Center For Breast Care, Suite 405, CAM Bldg., MUMC.

Contact: Amy Jenkins, RN at 912-350-2704

Not available on Macon Campus

Description:

This course involves a combination of clinical hands-on and didactic experience under the direct tutelage of Dr. Rudolph. The student will be involved in clinical exposure relating to breast disease with history taking, cancer risk assessment, breast and lymph node exams, review and evaluation of imaging studies (mammography and ultrasonography), assessment of the patient’s total disease presentation, and planning for treatment. The student will see patients in the private office setting, in clinic, and in the OR.

Objectives:

- Course will have specified learning objectives concerning knowledge, skills, and student responsibilities
- Knowledge will be gained by one-on-one interface with Dr. Rudolph on a daily basis with constant teaching, explanations, questioning, and advice. The student will be expected to familiarize him/herself with the standard texts and literature related to breast disease and attendance at the multi-specialty Breast Tumor Board every other week
- Skills training will be offered in breast evaluation, history taking, cancer risk assessment, breast and nodal exam, imaging interpretation and evaluation, tissue sampling with core needle and open biopsy technique, with and without ultrasound guidance, mastectomy ranging from lumpectomy to modified radical mastectomy, sentinel node sampling, and vascular access port placement
- Responsibilities will include rounding on inpatients, examining and evaluating office and clinic patients, documenting work done, and having chart notes co-signed by the attending physician

Evaluation:

Criteria: knowledge, skills, attitude, attendance, professionalism, etc.

- Subjective conversations and questioning on a daily basis with the preceptor, other surgical attendings, and surgical residents. The student will be in the preceptor’s presence for the majority of each work day
- Papers and/or presentations will be expected by the student. The student will present cases encountered in the preceptorship with adequate data researched and prepared to give a presentation on a breast related topic at one Thursday Resident teaching conference.
- Examination will be on going with evaluation of daily interactions with the student and the preceptor, with direct feed-back between Dr. Rudolph and the student. If deemed necessary by Dr. Rudolph, a final oral examination will be given at the end of the preceptorship
- A standard MUSM evaluation form is to be completed by the preceptor.
# Minimally Invasive Surgery and Bariatric Surgery

**SUR.S19**

**Duration:** 2-4 Weeks  
**Enrollment:** Maximum 1 student  
**Visiting Students:** Yes  
**PCR Majority:** Yes  

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**Prerequisite:** Successful completion of all third year clerkships  
**Faculty:** Oliver Whipple, M.D., Savannah Colon and Rectal Surgery, Suite 103, Provident Building, Savannah, Georgia  
**Contact:** Janet Barcafar, 912-350-8621  
*Not available on Macon Campus*

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**Description:**

The student will be exposed to all aspects of the multidisciplinary care of bariatric patients. This will include preoperative evaluation, operative management, surgical options, inpatient postoperative care, and outpatient follow up. In addition to bariatrics the student will be exposed to all aspects of minimally invasive gastrointestinal surgery and hernia surgery.

**Objectives:**

To expose the student to the care and management of the morbidly obese. This elective will also expose the student to the key principles of minimally invasive surgery.

**Evaluation:**

The preceptor will evaluate patients experience on the clinical service, patient interaction, intraoperative exposure, and fund of knowledge. A standard MUSM evaluation form is to be completed by the preceptor.
Surgical Oncology/Gastrointestinal Surgery

SUR.S20
Duration: 2-4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Steven T. Brower, MD, James Garber, MD, Christopher Senkowski, MD, Robert Jones, MD, Yaron Perry, MD
MUMC, Savannah, Georgia

Contact: Linsey McDougal  912-350-5902
Not available on Macon Campus

Description:

The student will be exposed to all aspects of the multidisciplinary treatment of cancer surgery including an introduction radiation oncology and adjuvant treatments after surgery. Although a significant exposure for benign and malignant GI disorders will be included, all aspects of surgical oncology including colorectal, hepatobiliary, melanoma, sarcoma, endocrine, and other sites will be covered. Aspects of newer technology of surgical treatment including advanced minimally invasive surgical techniques will be demonstrated.

Objectives:

To provide clinical experiences on a busy cancer surgery service with specific reference to multidisciplinary treatment of cancer patients including radiation oncology and chemotherapy

Evaluation:

The preceptor will evaluate patients experience on the clinical service, patient interaction, intraoperative exposure, and fund of knowledge. A standard MUSM evaluation form is to be completed by the preceptor.
**Clinical Research in Cancer Surgery**

**SUR.S21**
- **Duration:** 4 weeks
- **Enrollment:** Maximum 1 student
- **Visiting Students:** No
- **PCR Majority:** No

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**Prerequisite:** Successful completion of all third year clerkships

**Faculty:** Steven T. Brower, MD, and basic scientists within the DLOR and ACI, MUMC, Savannah, Georgia

**Contact:** Linsey McDougal 912-350-5902

*Not available on Macon Campus*

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**Description:**

Provide student the opportunity to participate in laboratory level research related to solid tumors, such as pancreas, lung, sarcoma, breast and endometrial. The student will be exposed to all aspects of modern scientific laboratory activities and participate in everyday unique basic science.

**Objectives:**

To allow student database experience with database, statistical analysis, abstract preparation and manuscript preparation utilizing a data set of surgical patients

**Evaluation:**

The preceptor will work directly with the student to organize the data sets in Surgery and evaluate student’s progress in relational databases biostatistics, abstract and scientific paper preparation. A standard MUSM evaluation form is to be completed by the preceptor.
Surgical (STICU) Critical Care/Intensive Care Unit Experience-Elective Course

SUR.M22/SUR.S22

Duration: 4 weeks
Enrollment: Maximum 3 students, Savannah 2 students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Course Director: Dennis W. Ashley, M.D.
         Savannah - Course Director: M. Gage Ochsner, M.D.

Contact: Macon - Contact: Tracy Thompson 478-633-1199
         Savannah – Contact: Linsey McDougal 912-350-5902

Course Goal:

To provide fourth year medical students an understanding of the unique aspects of critical care medicine provided in the intensive care unit setting and provide an opportunity for learning about critical care medicine through active participation in patient care in the intensive care unit setting.

General Description:

This rotation gives the student exposure to the acutely ill patient in the intensive care unit. The student will have an opportunity to manage one to two patients with the surgical critical care team. The team usually consists of medical students, residents and an attending critical care physician. Students will be exposed to a wide array of critical illness and will have the opportunity to manage respiratory failure with ventilator management, cardiac failure, etc. Students will also have the opportunity to assist with multiple procedures that are commonly performed in the intensive care unit. This is a Monday-Friday daily rotation. Students are expected to present their patients on rounds and then attend daily teaching conferences. There is no night or weekend call for this rotation.

Learning Outcome Objectives:

After this rotation, students will be able to:

- Outline the indications and criteria for admission to and transfer from an intensive care unit
- Actively and appropriately participate in the care of critically ill patients in an ICU setting that emphasizes a multidisciplinary team approach to patient care and values the contribution of all those participating in care of the patient
- Manage ICU patient airways appropriately and provide appropriate respiratory support including mechanical ventilator management.
- Recognize and treat life-threatening conditions common in the ICU setting.
Surgery ICU Learning Objectives (Cont’d)

- Recognize and treat life-threatening conditions common in the ICU setting
- Provide appropriate fluid and electrolyte therapy for the critically ill ICU patient
- Provide appropriate nutritional support for the critically ill ICU patient
- Recognize, understand the basis of, and treat hemodynamic instability in the critically ill ICU patient
- Recognize the psychological aspects of critical care and critical illness on ICU patients and their families and tailor the care they provide appropriately
- Summarize the most common ethical issues involved in critical care medicine including patient autonomy, consent, end of life care, and withdrawal of care
- Participate appropriately in patient procedures performed in the intensive care setting under the direct supervision of the teaching faculty
- Accurately explain the pathophysiology associated with conditions and problems in the ICU patient
- Summarize appropriate indications for the use of blood products
- Diagnose and manage acute renal failure

Expectations:
Report on time. Be available for rounds, admissions, procedures throughout the day. Write a daily detailed progress note on each assigned patient. Present patients to attending and team. Attend didactic sessions. Complete assigned readings. Night and weekend call are expected.

Duty Hours:
Savannah: 6 AM – 6 PM 6 days a week in compliance with the 80 hr/work week.

References:
- The ICU Book 2nd Edition, Paul L. Marino, M.D.

Critical Care Surgery Procedure List:
Students may have the opportunity to perform or assist with the following procedures under faculty supervision. Procedure availability will be highly dependent on patient load, pathology, and team composition.

- Central venous catheter placement
- Endotracheal intubation
- Arterial blood gas specimen collection
- Enteral feeding tube placement
- Arterial catheter placement
- Mechanical ventilator management
- Total parenteral nutrition management
- Thoracentesis
- Paracentesis
- Swan-Ganz Catheter placement and data interpretation
- Foley catheter placement
- Percutaneous Endoscopic Gastrostomy
- Venacava filter placement
- Percardiocentesis
- Percutaneous Tracheostomy

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Surgical (STICU) Critical Care/Intensive Care Unit Sub-Internship

MED SUB SUR.M05
MED SUB SUR.S05
Duration: 4 weeks
Enrollment: Maximum 3 students, Savannah 2 students
Visiting Students: No
PCR Majority: No

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:**
- **Macon** - Course Director: Dennis W. Ashley, M.D.
- **Savannah** - Course Director: M. Gage Ochsner, M.D.

**Contact:**
- **Macon** - Contact: Tracy Thompson 478-633-1199
- **Savannah** – Contact: Linsey McDougal 912-350-5902

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**Course Goal:**
To provide fourth year medical students an understanding of the unique aspects of critical care medicine provided in the intensive care unit setting and provide an opportunity for learning about critical care medicine through active participation in patient care in the intensive care unit setting.

**General Description:**
This rotation gives the student exposure to the acutely ill patient in the intensive care unit. The student will have an opportunity to manage one to two patients with the surgical critical care team. The team usually consists of medical students, residents and an attending critical care physician. Students will be exposed to a wide array of critical illness and will have the opportunity to manage respiratory failure with ventilator management, cardiac failure, etc. Students will also have the opportunity to assist with multiple procedures that are commonly performed in the intensive care unit. This is a Monday-Friday daily rotation. Students are expected to present their patients on rounds and then attend daily teaching conferences. There is no night or weekend call for this rotation.

**Learning Outcome Objectives:**
After this rotation, students will be able to:
- Outline the indications and criteria for admission to and transfer from an intensive care unit
- Actively and appropriately participate in the care of critically ill patients in an ICU setting that emphasizes a multidisciplinary team approach to patient care and values the contribution of all those participating in care of the patient.

**Evaluation:**
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Rural Private Practice of General Surgery

SUR.M23
Duration: 2-4 Weeks
Enrollment: Maximum 2 students per site (Must be Approved)
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Surgical Associates of Cordele, Georgia; William Pannell, MD, Vincent Culpepper, MD, Michael Thompson, MD.
Contact: Macon – Joy Bloodworth - bloodworthj@hotmail.com
229-273-9050
Not available on Savannah Campus

Description:

The student will be an integral part of the surgical health care team. The student will be able to work up new patients, experience operative management and follow the patients on rounds. The student will have office and patient experience. The student will have a limited amount of call with one of the three faculty surgeons. AHEC has provided living facilities. The student will keep a patient log so we can evaluate the experience. The student will also provide the faculty with a written summary of the experience.

Objectives:

To provide pre-op management operative experience, post-operative follow up care in a busy rural general surgery practice in South Georgia.

Evaluation:

The Surgery Faculty will provide an elective evaluation form to academic records. The elective is not limited to those who are choosing surgery as a career choice. A standard MUSM evaluation form is to be completed by the preceptor.
Rural Private Practice of General Surgery Sub-Internship

MED SUB SUR.M23
Duration: 4 Weeks
Enrollment: Maximum 2 students per site (Must be Approved)
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Surgical Associates of Cordele, Georgia; William Pannell, MD, Vincent Culpepper, MD, Michael Thompson, MD.
Contact: Macon – Joy Bloodworth at bloodworthj@hotmail.com
229-273-9050 or Dr. William Pannell at bipamd@aol.com
Not available on Savannah Campus

Description:

The student will be an integral part of the surgical health care team. The student will be able to work up new patients, experience operative management and follow the patients on rounds. The student will have office and patient experience. The student will have a limited amount of call with one of the three faculty surgeons. AHEC has provided living facilities. The student will keep a patient log so we can evaluate the experience. The student will also provide the faculty with a written summary of the experience.

Objectives:

To provide pre-op management operative experience, post-operative follow up care in a busy rural general surgery practice in South Georgia.

Evaluation:

The Surgery Faculty will provide an elective evaluation form to academic records. The elective is not limited to those who are choosing surgery as a career choice. A standard MUSM evaluation form is to be completed by the preceptor.
Clinical Orthopaedic and Sports Medicine

SUR.M24
Duration: 2 - 4 Weeks
Enrollment: Maximum 2 students per preceptor
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Houston Medical Center, Warner Robins, Georgia: William B. Wiley, M.D., Jeff Jarrett, M.D., Scott Malone, M.D., Jeff Easom, D.O., Daxes Banit, M.D., Derek Phillips, M.D.

NEED IMMUNIZATIONS AND PPD WITHIN 1 YR, DRUG SCRREN WITHIN 30 DAYS, LETTER IN GOOD STANDING INCLUDING DATES OF ELECTIVE

Contact: Marilyn Peterson 478-953-4563 mpeterson@hhc.org
Mid GA Ortho - Danette Brooks 478-971-2290 dbrooks@mgo.md

Description

The elective will be hospital-based and ambulatory-based in the office venues. Depending on the season and sport the student will participate in on field coverage of athletic events. The student will have the opportunity to evaluate and formulate an opinion on new patients and then review and observe the evaluation and workup of the supervising physician. There will be a weekly didactic session on specific athletic injuries in which the student will be required to participate and present. An MRI conference will be set up with the radiologist in whom current cases will be reviewed and discussed as well as the correlation with surgical findings.

Objectives:

➢ To understand and be able to perform a complete musculoskeletal physical exam
➢ To participate in the interaction between the physician and athletes in different stages of treatment
➢ To learn the non-operative workup and treatment of shoulder and knee disorders
➢ Have the opportunity to observe and perform injections in the shoulder, knee and hip
➢ To observe EMG and NCT
➢ Optional to observe and participate in surgical cases

Requirements:

➢ Student will received a CD of scanned classic sports medicine articles
➢ Hoppenfeld, S. Physical Exam of the Spine and Extremities
➢ Hoppenfeld, S. Orthopaedic Neurology
➢ Hoppenfeld, S. Surgical Exposures in Orthopaedics

Evaluation:

This will be based on knowledge, skill and attitude. A standard MUSM evaluation form is to be completed by the preceptor.
SUB-INTERNSHIPS
Advanced General Surgery Sub-Internship

MED SUB SUR.M01
MED SUB SUR.S01

Duration: 4 Weeks
Enrollment: Macon Max 1 student; Savannah Max 2 students
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon - Dr. Ayoub Macram, and General Surgery Faculty at MCCG; Dr. Earl Mullis and Dr. John Williams
Savannah - General Surgery Faculty, MUMC

Contact: Macon – MCCG – Elizabeth Bunn 478-633-2058; Mullis & Williams: Laurie or office manager Beth Thrasher 478-746-2770. thrasher.beth@gmail.com; Fax 478-746-0000
Savannah – Linsey McDougal 912-350-5902 Report at 8AM on the first day of the rotation

Description:
The student is assigned to a member of the Surgery Faculty who serves as preceptor. The goal is to provide a well-rounded experience in surgery, which includes General, Cardiac, and Thoracic. Each student will be assigned to a surgical teaching service and will work with the residents on that service under the supervision of the attending surgeon and faculty. The student will be allowed in-hospital call every third or fourth night and given the opportunity for evaluation of emergency surgical consultations early in the patients hospital stay in order to prepare the student for internship. In Savannah, student will be assigned to a specific faculty member.

Objectives:
- To provide a well-rounded experience in surgery
- To improve acumen in history taking, physical examination, and diagnostic modalities as applied to surgery
- To scrub on surgical cases so as to improve skill, knowledge, and technique or surgical procedures
- To learn what gross pathology is presented at surgery
- To learn to evaluate preoperatively the status of the patient as regards his ability to withstand the contemplated procedure and anesthetic
- To assist in postoperative care such as dressings, drains, gastrointestinal tubes, venous access lines, etc.
- To learn proper treatment and evaluate the results and follow-up care of surgical patients
- To better prepare for a surgical internship

Evaluation:
The Surgery Faculty, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
**Cardiac Surgery Sub-Internship**

**MED SUB SUR.M02**  
**MED SUB SUR.S02**

**Duration:** 4 Weeks  
**Enrollment:** Maximum 1 student/ Course unavailable July and December  
**Visiting Students:** No  
**PCR Majority:** Yes

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:**  
**Macon** – Dr Stevick - Macon Cardiovascular Institute  
575 First Street, Macon, GA  
**Savannah** - Robert E. Jones, M.D., ACI Surgical Associates  
Savannah, 912-305-2299

**Contact:**  
**Macon** – Donna Malcolm 478-743-9762, Fax 478-746-6612  
d.malcom@maconcvi.org  
**Savannah** – 912-305-2299 or Clerkship Coordinator 912-350-8076

**Course unavailable July & December. Limit 4 students per year.**

**Description:**

The student is assigned to a cardiothoracic and vascular surgery team at the Medical Center of Central Georgia and/or at other area hospitals and Memorial University Medical Center where the preceptor’s patients are cared for. A goal is to provide a comprehensive experience in cardiac surgery, thoracic and vascular surgery. The rotation can be tailored to the desire of the student with a focus on cardiac, thoracic, or vascular surgery. This would include preoperative evaluation, angiographic diagnosis, surgical techniques in cardiothoracic and vascular surgery, and postoperative care of these patients.

**Objectives:**

- To provide a well-rounded experience to the surgical care of cardiac disease  
- To improve the acumen in history taking, physical exam, and diagnostic modalities as applied to patients with cardiac diseases, which are amenable to surgery  
- To participate in operations in order to improve skill, knowledge, and technique of surgical procedures  
- To understand the clinical correlation of gross pathology in cardiac disease  
- To learn to evaluate the preoperative status of the patient as regards to their ability to undergo the planned procedure and anesthesia  
- To assist in postoperative care  
- To learn proper treatment, evaluation, and result of long-term follow-up of patients with cardiac disease, with an emphasis on rehabilitation

**Evaluation:**

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
Cardiovascular Intensive Care Unit Critical Care Sub-Internship

MED SUB INM.M01

Duration: 4 weeks
Enrollment: Maximum 2 students
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: John A. Hudson, M.D., MCCG, Macon, Georgia

Contact: Contact four weeks prior to rotation to arrange course times and place: 478-749-5556, E-mail: Hudson.John@mccg.org

Description:

Course Goal:
To provide fourth year medical students a basic understanding of the unique aspects of critical care as applied primarily to the post-operative cardiothoracic and vascular surgery patient population in an intensive care unit setting. Opportunities for learning about the principles of surgical and medical critical care will be provided.

General Description:
This 4-week rotation will allow the student(s) to actively participate in the care of critically ill patients in conjunction with other members of the ICU team. Interaction with nurses, pharmacists, respiratory therapists, nutritionists, social workers, and other members of the multidisciplinary team will be encouraged and expected during rounds three times per week. Communication skills will be emphasized.

During the rotation the student(s) will be exposed to a wide variety of pre-op and post-op cardiothoracic patients as well as critically ill patients with non-surgical medical problems. Each student will be expected to assist with the management of one or two patients along with the critical care team. Members of the team will instruct the student(s) in basic ventilator management, hemodynamic monitoring, pre-op and post-op assessment of the cardiothoracic patient, interpretation of x-rays, evaluation of lab results, appropriate use of antibiotics, and the fundamentals of critical care. Depending upon the patient population, the technical aspects of central venous catheter insertion, bronchoscopy, cardioversion, etc will be demonstrated with options for the student(s) to actively participate according to his/her ability. The current and evolving role of the intensivist will be discussed.

Learning Outcome Objectives:

After this rotation, students will be able to:

- Outline the accepted indications for admission to and transfer from an ICU
- Comprehend the rationale behind a multidisciplinary approach to the care of critically ill patients
- Demonstrate active and appropriate participation in the care of critically ill patients in the ICU setting utilizing the multidisciplinary team model
CVICU Sub-I Objectives (Cont’d)

- Provide appropriate airway management and understand the basics of respiratory support using a mechanical ventilator
- Recognize and treat life-threatening conditions which are common in the ICU with special emphasis on those conditions encountered in the post-op cardiothoracic surgical patient
- Provide appropriate fluid, electrolyte, and nutritional support for the critically ill patient
- Determine the etiology of hemodynamic instability in the ICU patient and provide appropriate treatment
- Demonstrate an understanding of the pathophysiology associated with the common conditions and problems encountered in the ICU
- Diagnose and manage acute renal failure
- Actively participate in the performance of procedures performed in the ICU setting under the direct supervision of the teaching faculty
- Understand common patient and family psychological issues which may have direct or indirect effects on patient care in the ICU
- Understand the most common ethical issues involved in critical care medicine including patient autonomy, consent, end-of-life care, and withdrawal of care

Duty Hours:
8AM – 4:30PM, Monday – Friday

Call:
None required

Expectations:
Report on time and dress appropriately – clean scrubs are acceptable. Be available for rounds, new admissions, and procedures. A detailed, daily progress note on each assigned patient is encouraged but not mandatory if there has been little change in a patient’s status overnight. Presentation of assigned patients during multidisciplinary rounds is expected. Attend teaching sessions and complete assigned readings.

CVICU Procedure List:
Students may have an opportunity to perform or assist with the following procedures under faculty supervision. The patient population mix will determine procedure availability.

- Central venous catheter insertion
- Insertion of pulmonary artery catheter
- Insertion of arterial monitoring catheter – either radial or femoral artery
- Insertion of chest tube
- Thoracentesis
- Orotracheal intubation
- Tracheostomy – percutaneous approach
- Insertion of Foley catheter
- Placement of enteral feeding tube
- Bronchoscopy
- Cardioversion

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Consultation Psychiatry Sub-Internship

MED SUB PSY.M02  
MED SUB PSY.S02

Duration: 4 Weeks  
Enrollment: Maximum 1 student  
Visiting Students: No  
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:  
Macon - Grady Carter, M.D., Paige Tench, M.D.  Contact preceptor at least one week prior to the start of the course.  
Savannah - Stephen Yost, DO, Behavioral Medicine, Savannah, GA

Contact:  
Macon - Clerkship Coordinator 478-301-2107  
Savannah - Barbara Roundtree 912-350-2664

Description:
The student will learn to diagnose and treat psychiatric disorders in complex medically ill patients. The student will round in the mornings with the Psychiatric Consult Service of the Medical Center of Central Georgia and Memorial University Medical Center. The student will function as a sub-intern. The student will evaluate patients, write History and Physicals and daily progress notes, develop treatment plans, write orders, and interact with the patient care team.

Objectives:

- Increase knowledge base and awareness of psychiatric syndromes as they present in medical and surgical patients
- Increase knowledge base of the common medical causes of delirium, dementia, depression, and of the common psychosomatic syndromes
- Increase awareness of the psychosocial sequela of life-threatening medical and surgical disease
- Increase awareness of the principles of behavioral medicine including stress management, pain management, and behavioral approaches to medication non-compliance, and other unhealthy behaviors
- Improve skills in patient interviewing, behavioral management of psychiatric disorders in medical/surgery patients, and in psychopharmacologic interventions in such patients

Evaluation:
Supervisors’ will evaluate based on observations of student’s clinical evaluations and presentations and willingness to pursue additional readings on timely topics. A standard MUSM evaluation form will be completed by the preceptor.
Gynecologic Oncology Sub-Internship

OBG.S03

Duration: 4 Weeks
Enrollment: Maximum 1 Student *(Not available in July)*
Visiting Students: Yes (No - International Students)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: GYN/Oncology Faculty at MUMC, Savannah, GA, James J. Burke, II, M.D. and Scott Purinton, M.D.

Contact: Report to Barbara Cox, OB/GYN Education Office, 1st floor of Main Hospital at 9:00 a.m. on the first day. 912-350-1368 *(Not available in July)*

*Not available on the Macon campus*

Description:

The student will participate in the care of private patients and staff patients under the supervision of the faculty member and senior resident on the Gynecologic Oncology Service. Daily review of pathology slides and x-ray examinations is integrated with rounds on inpatients. The student will scrub on all surgical procedures as a second assistant and occasionally as the first assistant. The student will dictate some of the operative reports or write a report on the records with the attending and be instructed in postoperative care, including hyperalimentation and chemotherapy. The student will be encouraged to participate in some clinical studies. Student may present in GYN/Oncology Tumor Board.

Objectives:

- To learn basics of care of patients with female genital cancer
- To learn care of seriously ill post-operative patients
- To learn basic of radical pelvic surgery
- To learn integration of chemotherapy and radiation therapy

Evaluation:

The GYN Oncology Faculty Preceptor and Residents will evaluate the student on the basis of performance, skill, knowledge, and attitude. The degree of responsibility will be determined by student progress during the clerkship.
Hospitalist Sub-Internship

MED SUB INM.M04
Duration: 4 Weeks
Enrollment: 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Dr. Steve Tuck – Cogent Hospitalist Group 478-633-7550
Tuck.steven@cogenthealthcare.com

Contact: Sabrina at 478-633-7550 or
fowler.sabrina@cogenthmg.com

Not available on Savannah Campus

Description:

During this rotation, the student will round with the hospitalist group and will conduct patient interviews and physical examinations. The student will then document their findings and will communicate those findings to the hospitalist they are directly working with. The student will be required to formulate a diagnostic and treatment plan, perform a directed history and physical exam, as well as be responsible for writing daily progress notes. The student will be integral in the day to day patient orders and will help direct discharge planning. Patients will be selected for the student by the admitting hospitalist and the student will work in conjunction with the Cogent nurses to discharge care for their patients.

Objectives:

- For the student to learn how to function as a hospitalist under a less stressful and highly supervised environment.
- To learn about inpatient care for the adult patient from the growing field of the hospitalist.
- To give the student the opportunity to become intimately involved in the decision processes and care of their patients.

Evaluation:

The supervising hospitalist will perform an evaluation based upon the student’s clinical performance, attendance, knowledge, skills and attitude. The preceptor will complete a standard MUSM evaluation form.
Infectious Disease Sub-Internship

**MED SUB INM.M02**
**MED SUB INM.S02**

**Duration:** 4 Weeks  
**Enrollment:** Max 2 Students Macon, 1 Student Savannah  
**Visiting Students:** Macon - Yes; Savannah - No  
**PCR Majority:** Yes

**Prerequisite:** Successful completion of all third year clerkships

**Faculty:** Jeffrey Stephens, M.D. and Ritu Kumar, M.D., MCCG, Macon, Georgia. 478-741-5945  
Richard Roth, MD, Savannah, Georgia 912-354-5543

**Contact:** Macon - Ernestine Cubbage – cubbage_e@mercer.edu; 478-301-5830  
Savannah - Deborah 912-354-5543.

**Description:**
This elective will revolve around the practice of infectious disease. Each student will participate fully in the evaluation of patients with infectious disease problems in the hospital and the clinic. They will be required to make daily rounds on the patients, which may include weekends.

Students will be given lectures on antibiotics, empiric treatment of common infectious disease problems, and AIDS. Reading of selected sections in standard infectious disease texts and pertinent articles will be required.

**Objectives:**
- To be able to demonstrate a systemic approach to the evaluation and management of a patient with an infectious disease problem using the problem-oriented approach
- To understand and be able to deal comfortably with the various aspects of HIV and AIDS
- To understand and manage common infectious disease problems and ancillary conditions
- To understand the principles of managing nosocomial disease
- To strengthen student capacity to effectively provide subspecialty consultation in an office and hospital setting

**Evaluation:**
The student’s evaluation will be based upon his performance on rounds and at the bedside, and on a comprehensive test. Special attention will be placed on the student’s ability to take a careful history, perform a complete examination, formulate a differential diagnosis and then develop a diagnostic and treatment plan based on this information. The preceptor will complete the standard MUSM evaluation form.
In-Patient Psychiatry Sub-Internship

MED SUB PSY.M01
MED SUB PSY.S01

Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon - Grady Carter, M.D.,
Contact: Macon - Clerkship Coordinator 478-301-2107

Description:

This rotation takes place on the in-patient psychiatric unit of MCCG. The student will function as a sub-intern under the direct supervision of the attending psychiatrist. The student will evaluate admitted patients, do history and physicals and daily progress notes, develop treatment plans, write orders, and participate in the psychiatric unit treatment team.

Objectives:

- Evaluate newly admitted patients and develop a differential diagnosis and diagnostic formulation utilizing all five diagnostic axes.
- Develop and implement a pharmacologic and psychosocial treatment plan under the supervision of the attending.
- Increase knowledge base concerning psychiatric illnesses and their treatment.
- Participate on an inter-disciplinary treatment team

Evaluation:

Supervisors’ will evaluate based on observations of student’s clinical evaluations and presentations and willingness to pursue additional readings on timely topics. A standard MUSM evaluation form will be completed by the preceptor.
Intensive Care Medicine Sub-Internship – Columbus

MED SUB INM.C03
Duration: 4 weeks
Enrollment: Maximum 3 students
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Sponsoring Preceptor: Dr. Vincent Nicolais.
Contact: Ms. Susan Davis, Medical Education Department 706-571-1145.

Description:
Learners will spend all their time in the ICU of Columbus Regional Medical Center, working directly with Intensivist Dr. Vincent Nicolais. They will observe the management of the critically ill, medical and surgical patient. They will have the opportunity to observe and to perform many common ICU procedures, such as Central Line placement, intubation, et al. In addition to rounding on patients, Dr. Nicolais gives didactic lectures on a daily basis.

Objectives:

- Learn to recognize when a patient needs critical care
- Formulate an assessment
- Derive a management plan
- Expected to develop some familiarity with ventilator management, and to become knowledgeable about the more common drugs used in the ICU setting

Evaluation:

Their evaluation is done exclusively by Dr. Nicolais at the end of the rotation and is subjective. Ongoing verbal feedback is also given by him throughout the rotation. He may at times assign a topic to the learner to present to the group, which he again would “grade” subjectively. There is no test or exam with this rotation. Night Call is not required.

Course must have specific evaluation criteria concerning knowledge, skills, attitude, attendance, professionalism, etc. This area must include all methods of evaluation for the course; subjective, paper, presentation, examination, etc. The preceptor will complete the standard MUSM evaluation form.
Internal Medicine Sub-Internship

INM.M01, INM.S01

Duration: 4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Department of Medicine Attending Physicians, MCCG, Macon, Georgia. Savannah - Department of Medicine Attending Physicians, MUMC, Savannah, Georgia.

Contact: Macon – 478-301-5840, Contact Department Chair four weeks prior to beginning of rotation
Savannah - Sandra Simmons 912-350-8372; Contact prior to the beginning of the rotation

Description

During this rotation the student acts as an intern admitting patients under the supervision of the staff service attending and the senior resident. The student will be required to formulate a diagnostic and treatment plan and with the senior resident write orders to implement the plan. He will also be required to complete a history and physical exam and write daily progress notes and a discharge summary. Patients will be selected for admission for the student by the supervising resident that will also be responsible for the official history and physical and countersigning all orders before implementation. Call will be taken with the assigned team, which is every fourth day. Full-time faculty and practicing physicians will conduct didactic teaching and rounds.

Objectives:

- For the student to learn how to function as an intern under a less stressful and more highly supervised environment
- To learn about inpatient care for the adult, non-surgical patient
- To give the student the opportunity to become intimately involved in the decision processes and care of his/her patients

Evaluation:

The supervising resident and attending will perform an evaluation based upon the student’s clinical performance, attendance, knowledge, skills, and attitude. A standard MUSM evaluation form is to be completed by the preceptor.
Neonatology Sub-Internship

MED SUB PED.M02
Duration: 4 weeks
Enrollment: Maximum 1 student / (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Mitch Rodriguez, M.D., Anjali P. Parish, M.D., Schuyler Mims, M.D. - MCCG Neonatal Intensive Care Unit, Macon, Ga. Student must have pre-approval from Dr. Rodriguez as elective is only offered at certain times of the year.

Contact: Debbie Templeton 478-633-6835; Dr. Rodriguez 478-633-1299 (Patty)
Not available on Savannah Campus

Description:

This elective is to advance the student’s knowledge, experience, and skills in the care of low birth weight and critically ill newborns that are managed in the Neonatal Intensive Care Nursery at the Medical Center of Central Georgia. The students will perform as externs and share primary care responsibilities with the resident for a selected number of infants with a variety of life-threatening problems. Emphasis will be placed on stabilization of stressed newborns, methods of evaluation and options of treatment. The student is expected to make daily rounds with the attendings and present patients’ problems and plan of management. He/she is required to present a seminar on a neonatology topic. The student will have opportunities to participate in all diagnostic and therapeutic procedures (e.g. lumbar puncture, umbilical artery catheterization, etc.).

Objectives:

- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the care of the critically ill newborn
- To gain proficiency in common diagnostic and therapeutic procedures
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child’s illness and treatment

Evaluation:
Subjective evaluation will be completed on the student based upon the student’s medical knowledge, interest in patients, and communication skills. A standard MUSM evaluation form will be completed by the preceptor.
Neurosurgery Sub-Internship

MED SUB SUR. M10
MED SUB SUR.S10

Duration: 4 Weeks
Enrollment: Max 1 student
Visiting Students: Macon: No - Savannah: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon – Georgia Neurosurgical Institute: J.S. Robinson, M.D.
Savannah - J. Underwood Howington, M.D., Will Thompson, M.D., Neurological Institute, 4 Jackson Blvd., Savannah

Contact:
Macon – Cindy 478-743-7092 x259; Fax 478-743-0523
Clerkship Coordinator 478-633-1063
Savannah - Laurie Neeley 912-355-1010

Description:

The student is assigned to a member of the Neurosurgery Faculty who will serve as preceptor. The student is assigned responsibility for selected patients for neurological work-up and for daily evaluation and progress notes. He/she is expected to attend daily conferences. Subjects will be assigned for teaching sessions with a member of the Neurosurgery Faculty. He/she is expected to scrub and observe neurological surgical procedures.

Objectives:

- To allow the student to familiarize himself/herself with the more common neurological and neurosurgical disorders
- To gain confidence and competence in performing an adequate neurological examination
- To become familiar with the various neurosurgical investigative methods, indications, and limitations of each
- To learn proper treatment, evaluation, and diagnosis of nervous system trauma, neoplasm, vascular disease, hydrocephalus, and congenital disorders

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form will be completed by the preceptor.
Obstetrics & Gynecology Sub-Internship

OBG.M01, OBG.S01

Duration: 4 Weeks
Enrollment: Maximum 1 Student (Not available in July)
Visiting Students: Yes (No - International Students)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:

**Macon** – OB/GYN Faculty at MCCG, Macon, Georgia.
Christopher Hendry, M.D.

**Savannah** - OB/GYN Faculty at MUMC, Savannah, Georgia.
David B. Byck, M.D., Kimberly Crute, M.D., Melissa Crenshaw, M.D., Pamela G. Gallup, M.D., Dina Linfoot, M.D., Karen Baker, M.D., B. Darren Preuninger, M.D., Joanne K. Price, M.D., William Osborne, M.D. and Todd A. Robinson, M.D.

Contact:

**Macon** – Amanda McDaniel 478-633-2644

**Savannah** - Report to Barbara Cox, OB/GYN Education Office, 1st Floor of Main Hospital 9:00 A.M. 912-350-1368.
(Not available in July)

Description:
The student spends two weeks in daytime assignment in obstetrics and two weeks assigned to gynecology where he/she functions as an intern under supervision of residents and faculty. His/her nighttime call responsibilities are primarily to the obstetrics service. He/she is responsible for making rounds daily with attendings on the respective service and instituting patient care plans with resident and attending supervision.

Objectives:

- To solidify the educational objectives of the third year clerkship
- To provide a hands on experience on the management of Obstetrics & Gynecology patients

Evaluation:
The OB/GYN Faculty Preceptor and Residents will evaluate the student on the basis of performance, skill, knowledge, and attitude. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Orthopaedic Surgery Sub-Internship

MED SUB SUR.03
MED SUB SUR.S03
Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Timothy R. Stapleton, M.D. MCCG, Macon, GA. Savannah – Mark Jenkins, D.O., Chatham Orthopedics

Contact: Macon – Tammy Pruitt– 478-743-3000 x117; tpruitt@fs-ortho.com Savannah - Mark Jenkins, D.O. Chatham Orthopedics. Contact Maribeth Evans 912-355-6615

Description:
The student is assigned to a member of the Orthopaedic Faculty who will serve as preceptor. The student will be exposed to hospital, clinic, and office practice. The student will attend the orthopaedic conferences and will be assigned didactic subjects, and these will be discussed daily with members of the orthopaedic faculty. There are also Mercer athletics/sports medicine opportunities available, depending on season/time of year.

Objectives:

➢ To learn the indications and methods of evaluation of orthopaedic conditions
➢ To learn the problems of acute and chronic musculoskeletal disease and congenital anomalies, their diagnosis and treatment
➢ To learn the diagnosis and proper management of acute and chronic trauma of an orthopaedic nature including fractures, disclosures, and sprains
➢ To learn the proper interpretation of x-rays and other diagnostic procedures
➢ To learn disability evaluation in regard to orthopaedic conditions
➢ To scrub on surgical cases so as to improve skill, knowledge, and technique of surgical procedures under the direction of the preceptor
➢ To assist in post-operative care such as dressings, casts, splints, braces, etc., under supervision of preceptor
➢ To follow assigned patients throughout their hospitalization and to make rounds with the preceptor

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
Otolaryngology and Head & Neck Surgery Sub-Internship

MED SUB SUR.M09
MED SUB SUR.S09
Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty
Macon - ENT Center, Dr. Jerles; Macon, Georgia.
Savannah - ENT Associates Michael Zoller, M.D., Savannah, GA

Contact
Macon – Melinda Bivins at 478-743-8953 or 478-745-6576; Fax 478-741-9556. mbivins@theentcenter.com Contact at least one week prior to the start of the rotation.
Savannah - ENT Associates 912-351-3030, 5201 Frederick St, Savannah, Georgia

Description:
The student is assigned to a member of the Otolaryngology Faculty who serves as preceptor. The student will have the opportunity to get a broad sampling of the specialty of Ear, Nose, and Throat, as well as Head and Neck Surgery. The student will be exposed to an office practice daily with emphasis on adequate performance of an ENT examination, especially the use of fiberoptic evaluation of the larynx (indirect laryngoscopy). There will also be allergy testing as well as audiological evaluation and disposition of hearing loss and balance problems and exposure to surgical ENT procedures.

Objectives:
- To be exposed to practice of Otolaryngology and head and neck surgery in children and adults
- To learn how to properly conduct an ENT examination to include the use of diagnostic and treatment instruments
- Observe fiberoptic laryngoscopy and learn anatomic appearance and abnormality of the upper airway
- To learn the value and procedure of performing allergy testing and hyposensitization
- To learn the value and procedure of audiological examination and the proper disposition of hearing loss and balance problems
- To have surgical exposure and insight into ENT problems
- To know the indications and to participate in the performance of plastic surgery of the nose as well as cosmetic surgery
- To learn how to properly diagnose and treat ENT and head and neck problems

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Sub-Internship

MED SUB PED.M01
Duration: 4 weeks
Enrollment: Maximum 1 student (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:

Macon – Christy R. Peterson, M.D.; Department of Pediatrics attending MCCG physicians – Children’s Hospital
Savannah - Department of Pediatrics MUMC attending physicians; Children’s Hospital

Contact: Macon - Teresa Beard 478-633-7500
Savannah - Jackie Robinson 912-350-7847

Description:
The student will perform as an acting intern. He/she will assume primary care responsibility for staff patients admitted to the Children’s Hospital under the direct supervision of the faculty. The student will participate in the evaluation and management of emergency pediatric problems. Emphasis will be placed on applying basic principles to achieve optimal patient care. Students will report directly to the ward. Student will take night call during which he/she will participate in ward and ER calls under the supervision of the intern and/or resident on call.

Objectives:

- To increase the student’s knowledge base, clinical skills, and decision making capabilities in the area of hospital-based General Pediatrics
- To gain better exposure to the role and responsibilities of a pediatric intern
- To develop a differential diagnosis and make recommendations for establishing the diagnosis and providing the appropriate therapy in an in-patient setting and in the emergency room
- To gain proficiency in common diagnostic and therapeutic procedures
- To interact with hospital personnel such as: pediatric social workers, child life specialists, psychologists, etc. This is to broaden the exposure of the student to the dynamics of the child, the family, and psychosocial considerations
- To communicate with families in a manner that demonstrates compassion and assures parents comprehension of the child’s illness and treatment

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty and residents. A standard MUSM evaluation form is to be completed by the preceptor.
Pediatric Critical Care/ Intensive Care Sub-Internship (PICU)

MED SUB PED.M03
MED SUB PED.S03

Duration: 4 weeks
Enrollment: Maximum 1 student/ (Must Be Pre-Approved)
Visiting Students: Yes
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships.

Faculty: Macon - Lowell C. Clark, M.D., Roger Delacruz, M.D., Umesh Narsinghani, M.D., Katy Preissig, M.D.; MCCG – Children’s Hospital

Savannah – Tara Lemoine, D.O., Thomas W. McKee, M.D.; Mary Carol Lytle, M.D., Laura Vose, D.O. - PICU, 2nd Floor Main Hospital

Contact: Macon – Cynthia Loudin: 478-633-1413; Dr. Narsinghani, 478-633-1104
Savannah – Cheryl Douse 912-350-8194

Description:
This elective is designed to advance the student’s knowledge, experience, and skills in the care of the critically ill child. Emphasis will be placed on pathophysiology and management of common pediatric intensive care problems including acute respiratory failure, sepsis, poisoning, and trauma. Principles of monitoring will be stressed. The student will work directly at bedside with the preceptor and have the opportunity, where appropriate, to gain experience in invasive procedures. The student will make daily rounds and function as an extern. Major topics to be covered include: Fluid and electrolytes, closed head injury, seizures, respiratory distress/arrest, shock (cardiogenic and non-cardiogenic), renal physiology, and sepsis.

Objectives:
- To advance the student’s knowledge of the general principles of pediatric intensive care
- To provide introductory experience in the procedures of intensive care medicine
- Macon - To provide the student with expanded and refined technical skills as applied in the PICU
- Savannah - To provide the student with an introductory experience in the evaluation and management of critically-ill children

Evaluation:
Subjective evaluation will be completed on the student by the assigned faculty and residents. Evaluation will cover the student’s participation, clinical ability to formulate and apply treatment plans, enthusiasm, and attendance. A standard MUSM evaluation form is to be completed by the preceptor.
**Pediatric Sedation Sub-Internship**

**MED SUB PED.M01**  
Duration: 4 Weeks  
Enrollment: Maximum 1 student  
Visiting Students: Yes  
PCR Majority: Yes

<table>
<thead>
<tr>
<th>Prerequisite:</th>
<th>Successful completion of all third year clerkships</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACULTY:</td>
<td>Macon: Division of Pediatric Critical Care attendings</td>
</tr>
<tr>
<td>CONTACT:</td>
<td>Macon: Lowell Clark, MD</td>
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</tbody>
</table>

**Description:**  
This course introduces the student to the principles and practice of pediatric procedural sedation. Methods include completion of pertinent syllabus and reading materials and clinical experience sedating children for various procedures including: imaging (MRI, CT); endoscopy; oncologic procedures; and, minor surgical procedures.

**Objectives:**
- perform the pre-sedation history and physical assessment
- become familiar with commonly used medications for pediatric sedation
- identify, calculate dosing, and prepare individual medications under direct supervision of the intensivist
- understand and employ rescue techniques for the sedated child

**Evaluation:**  
The preceptor, on the basis of performance, skill, knowledge and attitude, will evaluate the student and complete the standard MUSM evaluation form.
Pediatric Surgery Sub-Internship

MED SUB SUR.M04
MED SUB SUR.S04

Duration: 4 Weeks
Enrollment: 1 student
Visiting Students: No – Macon; Yes - Savannah
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Macon - Don K. Nakayama, M.D., Dept Surgery Chair MCCG
Savannah - William Boswell, M.D., David Carney, M.D., Savannah Pediatric Surgery, Ste 511 PMOB, Savannah, GA

Contact: Macon – Liz Jennings Jennings.elizabeth@mccg.org 478-633-1367, or Dr. Nakayama: nakayama.don@mccg.org
Savannah - Barbara Paul 912-350-7914 or 912-350-7707 for scheduling information.

Description:

Attend regular student activities of the Department of Surgery. Make twice daily ward rounds with Pediatric Surgery residents. See pre- and post-operative patients in the pediatric surgery office. Perform supervised in-patient pediatric surgery consultations. Participate in the operative care of patients. There will be required reading from selected texts.

Objectives:

To provide an intense experience with both the common and rare surgical problems of children which will be of benefit for students interested in a surgical, pediatric, or family medicine career.

Evaluation:

The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. A standard MUSM evaluation form will be completed by the preceptor.
Rural Private Practice of General Surgery Sub-Internship

MED SUB SUR.M08

Duration: 4 Weeks
Enrollment: Maximum 2 students per site (Must be Pre-Approved)
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships
Faculty: Surgical Associates of Cordele, Georgia; William Pannell, MD, Vincent Culpepper, MD, Michael Thompson, MD.
Contact: Macon – Joy Bloodworth at bloodworthj@hotmail.com 229-273-9050 or Dr. William Pannell at bipamd@aol.com
Not available on Savannah Campus

Description:

The student will be an integral part of the surgical health care team. The student will be able to work up new patients, experience operative management and follow the patients on rounds. The student will have office and patient experience. The student will have a limited amount of call with one of the three faculty surgeons. AHEC has provided living facilities. The student will keep a patient log so we can evaluate the experience. The student will also provide the faculty with a written summary of the experience.

Objectives:

To provide pre-op management operative experience, post-operative follow up care in a busy rural general surgery practice in South Georgia.

Evaluation:

The Surgery Faculty will provide an elective evaluation form to academic records. The elective is not limited to those who are choosing surgery as a career choice.
## Senior Family Medicine Sub-Internship

**FAM.L01, FAM.A01, FAM.C01, FAM.R01, FAM.S01**

<table>
<thead>
<tr>
<th>Prerequisite:</th>
<th>Successful completion of all third year clerkships</th>
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<tbody>
<tr>
<td><strong>FAM.L01</strong> Albany</td>
<td>George T. Frederick, M.D. and other faculty at the Southwest Georgia Family Medicine Residency Program in Albany, Georgia. Contact Susan Workman 229-312-8878. Enrollment: one (1) student.</td>
</tr>
<tr>
<td><strong>FAM.A01 Atlanta (Morrow)</strong></td>
<td>Patrice Pearson, M.D. and other faculty at the Family Medicine Residency Program at the Atlanta Medical Center in Morrow, Georgia. Contact Dr. Patrice Pearson 770-968-6460 <a href="mailto:patrice.pearson@tenethealth.com">patrice.pearson@tenethealth.com</a>. Enrollment: one (1) student.</td>
</tr>
<tr>
<td><strong>FAM.C01 Columbus</strong></td>
<td>Janine Burgher-Jones, M.D., Director, Undergraduate Training, Associate Director at the Family Medicine Residency Program at Columbus Regional Medical Center, in Columbus, Georgia. Contact Susan Davis 706 571-1145. Enrollment: one (1) student.</td>
</tr>
<tr>
<td><strong>FAM.R01 Rome</strong></td>
<td>LeBron McBride, Ph.D., MPH, and other faculty at the Family Medicine Residency Program at Floyd Medical Center, in Rome, Georgia. Contact Dr. McBride 706-509-3343. Enrollment: one (1) student. <strong>Note: Rome only takes students going into Family Medicine from July – February.</strong></td>
</tr>
<tr>
<td><strong>FAM.S01 Savannah</strong></td>
<td>Robert Pallay, M.D. and other faculty at the Family Medicine Residency Program at Memorial University Medical Center, Savannah, Georgia. Contact Jennifer Fogle 912-350-8039. Enrollment: one (1) student.</td>
</tr>
</tbody>
</table>
FAM.L01 Albany, FAM.A01 Atlanta (Morrow), FAM.C01 Columbus, FAM.R01 Rome, FAM.S01 Savannah

General Description for all sites:

This rotation is structured as a sub-internship with the Department of Family Medicine to expose students to the full-breadth of Family Medicine. Activities include intensive hands-on direct responsibility for the continuing and comprehensive care of patients in both ambulatory and in-hospital settings. Patient care responsibilities will occur under close supervision of faculty and advanced residents. Also, included are clinical conferences and brief exposures to rural family Medicine and care of the older adult patient. Ambulatory clinic experiences in other specialty and/or subspecialty areas of particular interest to the student can be individually arranged.

Objectives:

- To assume responsibility and initiative in care for patients (under faculty supervision)
- To enhance perception of and attitudes toward the role of a physician and Family Medicine
- To become reacquainted with the many facets of the family physician and of Family Medicine
- To enhance the ability to establish effective physician-patient relationships
- To improve skills in gathering and recording appropriate patient information
- To improve skills in making appropriate clinical judgments
- To improve skills in planning, implementing, and evaluating therapy
- To improve skills in planning, implementing and evaluating Health Maintenance Disease Prevention and Continuous Health Care

Evaluation:

Student evaluations are based on clinical performance during the four-week rotation. The faculty member who has had the most contact with the student and observed his/her clinical performance performs evaluations. A standard MUSM evaluation form is to be completed by the preceptor.
Senior Student Trauma Sub-Internship

MED SUB SUR.M07
MED SUB SUR.S07

Duration: 4 Weeks
Enrollment: Maximum 1 Student
Visiting Students: Yes (Must Be Approved by Chief of Trauma Services)
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty:
Macon - Dennis Ashley, M.D.
Savannah - M. Gage Ochsner, M.D.

Contact:
Macon – Ginny Land 478-633-1199. Contact one week prior to the start of the rotation
Savannah – Linsey McDougal 912-350-5902. Report 7:30 AM on the first day of the rotation to the Chief Resident of Trauma Services.

Description:
The student will be assigned to the Chief of the Trauma Service and be responsible to him/her. 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 pre-hospital care, to include experience on both helicopter and ground EMS services, is included. (Helicopter/ground EMS service not included in Savannah).

Objectives:
- To give the student an understanding of the principles and practice of care of the multiple injured patient
- To participate in operations in order to improve skill, knowledge, and technique of surgical procedures
- The student should gain an understanding of the importance of the trauma care system development in pre-hospital care of the trauma patient

Evaluation:
Evaluation will be by direct observation by the preceptor. The preceptor will complete the standard MUSM evaluation form.
Surgical (STICU) Critical Care/Intensive Care Unit Sub-Internship

MED SUB SUR.M05
MED SUB SUR.S05

Duration: 4 weeks
Enrollment: Maximum 3 students, Savannah 2 students
Visiting Students: No
PCR Majority: No

Prerequisite: Successful completion of all third year clerkships
Faculty: Macon - Course Director: Dennis W. Ashley, M.D.
          Savannah - Course Director: M. Gage Ochsner, M.D.

Contact: Macon - Contact: Tracy Thompson 478-633-1199
          Savannah – Contact: Linsey McDougal 912-350-5902

Course Goal:
To provide fourth year medical students an understanding of the unique aspects of critical care medicine provided in the intensive care unit setting and provide an opportunity for learning about critical care medicine through active participation in patient care in the intensive care unit setting.

General Description:
This rotation gives the student exposure to the acutely ill patient in the intensive care unit. The student will have an opportunity to manage one to two patients with the surgical critical care team. The team usually consists of medical students, residents and an attending critical care physician. Students will be exposed to a wide array of critical illness and will have the opportunity to manage respiratory failure with ventilator management, cardiac failure, etc. Students will also have the opportunity to assist with multiple procedures that are commonly performed in the intensive care unit. This is a Monday-Friday daily rotation. Students are expected to present their patients on rounds and then attend daily teaching conferences. There is no night or weekend call for this rotation.

Learning Outcome Objectives:
After this rotation, students will be able to:
- Outline the indications and criteria for admission to and transfer from an intensive care unit
- Actively and appropriately participate in the care of critically ill patients in an ICU setting that emphasizes a multidisciplinary team approach to patient care and values the contribution of all those participating in care of the patient

Evaluation:
Students will be evaluated on knowledge, skill, performance, attendance, attitude and professionalism. A standard MUSM evaluation form is to be completed by the preceptor.
Surgical Oncology Sub-Internship

MED SUB SUR.M06
Duration: 4 Weeks
Enrollment: Maximum 1 student
Visiting Students: No
PCR Majority: Yes

Prerequisite: Successful completion of all third year clerkships

Faculty: Southeastern Surgical Oncology - A. Conforti, M.D. MCCG, Macon, Georgia

Contact: Contact: Jenny Walsh - 478-745-3363 or 478-633-4027
jwalsh@southeasternsurgicaloncolgy.com

Not available on Savannah Campus

Description:
The student will make daily rounds, see consultations, scrub on all surgical procedures, and have follow-up experience with ambulatory office patient care. Preceptor will give assigned readings.

Objectives:
To provide an exposure to surgical oncology through office and operating room exposure

Evaluation:
The preceptor, on the basis of performance, skill, knowledge, and attitude will evaluate the student. The degree of responsibility will be determined by student progress during the clerkship. The preceptor will complete the standard MUSM evaluation form.
APPENDIX
MUSM CHANGE OF SCHEDULE FORM

All schedule changes must be completed four weeks prior to the start of the first changed course. All changes to Required Courses must be initialed by Department Chairman or designee.

I. This section to be completed by the Student

Student Name:____________________________ Phone Number:_____________________

<table>
<thead>
<tr>
<th>Dates</th>
<th>Course Name and Number to be Dropped</th>
<th>Course Name and Number to be Added</th>
<th>New Preceptor Signature*</th>
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*If new preceptor(s) approval via Email (attach copies)

Date________________ Student Signature_________________________________________

II. This section to be completed by the Student Advisor

Student has _________/ does not have _________ (see attached explanation) permission to proceed with the requested schedule change.

Date:________________ Student Advisor __________________________________________

III. This section to be completed by the Coordinator

Course Available? Yes____ No _____ PCR Requirement met? _____ (# after change)
Change < 30 days? **Yes____ No _____ Away Rotation Exceeded? Yes_____ No _____
Four-week elective / specialty rule checked? Yes____ No _____

Date:________________ Coordinator_____________________________________________

** Reason less than 30 days_____________________________________________________

IV. This section to be completed by the Office of Clinical Education

Student has _________/ does not have _________ (see attached explanation) permission to proceed with the requested schedule change.

Date:________________ Associate Dean: _________________________________

(OR designee)
All schedule changes must be completed **four weeks prior to the start of the first changed course.**

All changes to Required Courses must be initialed by the Department Chairman or designee.

V. Office Use Only

**Approval Process**

**Previous Preceptor(s) Notified:**

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Verbal: _______ Email: _______ (Please attach copy of emails)

**New Preceptor(s) Notified:**

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Course: _____ Date: _______ Contact person: ______________________________

Verbal: _______ Email: _______ (Please attach copy of emails)

**Student Notified:** Date: _______ Verbal: _______ Email: _______

(Please attach copy of emails)

**Information Changed in Student Schedule Database:**

Date: ___________________________

**Information Changed in Student Schedule Book:**

Date: ___________________________

**Sent to Advisor for Signature:**

Date: ___________________________

**Sent to Academic Dean or Fourth Year Director:**
Date: ___________________________
In evaluating the student’s performance, use the level of skill expected from the clearly satisfactory student at this stage in training as your standard. **For any component that needs attention or rated at a 1, please provide specific comments and recommendations on the back of the form.** Be as specific as possible, including reports of critical incidents and/or outstanding performance. Global adjectives or remarks, such as “good student” do not provide meaningful feedback to the student.

### CIRCLE APPROPRIATE NUMERICAL CATEGORY

<table>
<thead>
<tr>
<th>1=FAIL</th>
<th>2= LOW PASS</th>
<th>3= PASS</th>
<th>4=HONORS</th>
</tr>
</thead>
</table>

#### 1. MEDICAL KNOWLEDGE:

**a. Knowledge base:**

<table>
<thead>
<tr>
<th>1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Fund of knowledge of discipline includes population-based and evidence-based medicine, is unacceptable for an individual at this level of training. Has great difficulty learning new concepts.</td>
<td>Adequate fund of knowledge and understanding of discipline, including population-based and evidence-based medicine. Knows enough to handle common situations.</td>
<td>Very good fund of knowledge and understanding of discipline, including population-based and evidence-based medicine. Asks insightful questions.</td>
<td>Extensive and in-depth fund of knowledge and understanding of discipline, including population-based and evidence-based medicine. Actively contributes to discussion and decision making. Above-average for level of training.</td>
</tr>
</tbody>
</table>

**b. Problem Solving:**

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Insufficient ability to analyze patient data base and integrate relevant basic and clinical knowledge. Difficulty in elaborating a diagnosis, prioritizing patient problem and developing diagnostic and therapeutic approaches, even with directive questioning.</td>
<td>Usually adequate analysis of patient data base and integration of relevant basic and clinical scientific knowledge. Able to define a core differential diagnosis and reasonable plan of care.</td>
<td>Consistently reasonable analysis of patient data base, integration of relevant basic and clinical scientific knowledge and clinical judgment. Able to elaborate a reasonable differential diagnosis and define logical diagnostic and therapeutic approaches.</td>
<td>Consistently insightful analysis of information and insightful approach to diagnosis and treatment. Integrates basic knowledge into the clinical situation. Accurately interprets and weighs conflicting information.</td>
</tr>
</tbody>
</table>

Comments if box 1 or 4 marked:

#### 2. PATIENT CARE:

**a. History:**

<table>
<thead>
<tr>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Ability to take a history and retrieve background medical information is often incomplete and inaccurate.</td>
<td>Usually identifies the key points but misses subtleties. Chief complaint elaborated but chronology may be unclear.</td>
<td>Almost always identifies and characterizes the needed information with accurate chronology. Usually reports most important data from records and diagnostic tests.</td>
<td>Consistently performs a complete, accurate and efficient assessment. Elaborates key subtleties. Chronology absolutely clear. Consistently obtains pertinent information from record and relevant results from diagnostic tests.</td>
</tr>
</tbody>
</table>

**b. Physical Exam:**

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</thead>
<tbody>
<tr>
<td>Major deficiencies noted in physical exam skills.</td>
<td>Adequate exam. Sometimes misses things, sometimes less than optimal technique.</td>
<td>Very good exam skills.</td>
<td>Consistently performs appropriate, accurate and efficient assessment. Links exam with issues raised in history.</td>
</tr>
</tbody>
</table>

**c. Information Management:**

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</tr>
</thead>
<tbody>
<tr>
<td>Presentations and notes often incompletely disorganized, inaccurate, illegible or lacking in detail. Unable to incorporate appropriate lab data.</td>
<td>Presentations and notes generally clear and complete and accurate. Occasionally not well organized or focused. Usually incorporates appropriate lab data.</td>
<td>Presentations and notes are organized, legible, accurate and concise. Occasionally misses minor points. Able to assess and follow-up lab data.</td>
<td>Model presentation and notes. Consistently complete, legible, accurate, concise and well organized. Assessments comprehensive and systematic, including use of laboratory data.</td>
</tr>
</tbody>
</table>

Comments if box 1 or 4 are marked:
3. PRACTICE-BASED LEARNING:

<table>
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</thead>
<tbody>
<tr>
<td>Does not show evidence of consistent reading. Is not able to readily access online sources of medical information. Cannot adequately apply factual knowledge to the care of patients. Does not learn from previous errors; makes the same mistakes repetitively.</td>
<td>Interested in learning. Reads on patient problems. Asks questions. Usually evaluates and applies new information/knowledge reasonably well. Learns slowly from previous errors.</td>
<td>Reads consistently about current clinical problems. Can readily access online sources of scientific information. Able to evaluate most medical reports in a critical manner. Readily applies cognition/knowledge to the clinical care of patients. Progressively learns from previous errors and rarely makes the same mistake twice.</td>
<td>Shows initiative in in-depth reading about current clinical problems. Shows great facility in accessing online sources of medical information. Is able to evaluate medical articles in a critical manner. Is usually skillful in applying cognitive knowledge to the care of patients. Learns rapidly from previous errors.</td>
</tr>
</tbody>
</table>

Comments if box 1 or 4 are marked:

4. INTERPERSONAL & COMMUNICATION SKILLS:

a. Human Relationships:

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<th>4</th>
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</thead>
<tbody>
<tr>
<td>Shortcomings in awareness of the relevance of psychosocial factors, cultural diversity and support systems to care of individual patients.</td>
<td>Shows some awareness of the relevance of psychosocial factors, cultural diversity and support systems to health care and sometimes applies this knowledge in the care of individual patients.</td>
<td>Shows good awareness of the relevance of psychosocial factors, cultural diversity and support systems to health care and applies this knowledge in the care of individual patients.</td>
<td>Has extensive knowledge of psychosocial factors, cultural diversity and support systems and shows excellent judgment and great insight in applying it to individual patients and families.</td>
</tr>
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</table>

b. Human Communications:

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Ability to establish rapport and communicate with patients and families is sufficiently strong to be a cause for concern. Displays lack of sensitivity, compassion and/or tact.</td>
<td>Does reasonably well establishing rapport and communicating with patients and families. Sometimes lapses into medical jargon or fails to appreciate significant patient responses.</td>
<td>Effective in establishing rapport and communicating with patients and families. Has a consistently positive impact on patients and other members of healthcare team.</td>
<td>Highly effective in establishing rapport and communicating with patients, families and healthcare team even under the most difficult circumstances.</td>
</tr>
</tbody>
</table>

Comments if box 1 or 4 marked:

5. PROFESSIONALISM:

<table>
<thead>
<tr>
<th>1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Honesty, respectfulness, attitudes toward patients and peers, selflessness, dedication to patient care and willingness to concede mistakes are sometimes a cause for concern. Sometimes compromises patient confidentiality. At times inappropriate.</td>
<td>Generally good attitudes to patients and peers. Demeanor and behavior always appropriate. Readily acknowledges mistakes. Consistently respects patient confidentiality. Work ethic is good.</td>
<td>Consistently demonstrates respect, honesty &amp; compassion for patients, peers and other staff. Dedicated to patient care. Actively seeks critical feedback. Strong work ethic.</td>
<td>Behavior is consistently outstanding. Exceptionally respectful and compassionate toward patients, coworkers, classmates and teachers. Always places patient’s well being above own self-interest. Work ethic is exemplary.</td>
</tr>
</tbody>
</table>

Comments if box 1 or 4 marked:

6. SYSTEMS-BASED PRACTICE:

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<thead>
<tr>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>Effectiveness, reliability and organization in working with the health care team are a concern. Often passive in patient management.</td>
<td>A cooperative member of the team. Handles day-to-day responsibilities adequately. Keeps up with patient information and clerical duties. Reasonably organized. Appropriate attention to detail.</td>
<td>A cooperative, organized and effective member of the team. Handles day-to-day responsibilities well. Shows initial regard regarding patient management issues.</td>
<td>A highly effective member of the team. Handles complex tasks well. Consistently seeks responsibilities and does whatever it takes to fulfill them. Actively engages non-MD health care professionals &amp; providers.</td>
</tr>
</tbody>
</table>

Comments if box 1 or 4 marked:

OVERALL COMMENTS:

_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

Signature of Faculty Date
Mercer University School of Medicine
MS IV Elective Clerkship Student Evaluation Form

Student: ___________________________________________
Elective: ___________________________________________
Elective Dates: ___________________________________________
Preceptor: ___________________________________________

Rating Scale:

5 = Outstanding   4 = Above Average   3 = Satisfactory   2 = Below Expectations   1 = Unsatisfactory

I. Please circle the appropriate number.

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Rating</th>
<th>Rating</th>
<th>Rating</th>
<th>Rating</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Performance</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
<tr>
<td>Medical Knowledge</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
<tr>
<td>Responsibility</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
<tr>
<td>Skills</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
<tr>
<td>Patient Relationships</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
<tr>
<td>Interpersonal Relationships</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
<tr>
<td>Independent Learning</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
</tr>
</tbody>
</table>

II. Comments:


III. Overall assessment of student’s performance:

Pass______ Unsatisfactory______ Incomplete______

Would you like this student as a house officer in your hospital?  Yes__ No__

___________________/__________________ __________________________
Instructor Signature   (Print & Sign Please) Date

Please return this form to:
MUSM Clinical Medical Education Coordinator
Medical Center of Central Georgia
777 Hemlock Street, MSC #30
Macon, Georgia 31201
Phone: 478-633-1063   Fax: 478-633-3217
A course description and letter from the host institution indicating willingness to accept the student must accompany this form. Form must be completed with all necessary signatures at least four weeks prior to the start of the elective.

This section to be completed by the student

Name: __________________________ Address:__________________________________________________
Phone: _________________________ Elective/Required Course Name:________________________________
Host Institution and Address:_________________________________________________________________
Host Preceptor and Phone Number:______________________________________________________________
Number of Weeks: ____________ Inclusive Dates:_____________________________________________

I have or will have completed, prior to the off-campus experience, the following senior clerkships (attach additional sheet if necessary):

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Location</th>
<th>R or E*</th>
<th>Length of Course</th>
<th>Inclusive Dates</th>
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</thead>
<tbody>
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</table>

* Required or Elective

Date: _______________ Student Signature:____________________________________________________

Clinical Medical Education Coordinator:

_____ Student has submitted all required paperwork to proceed with application for this experience.
_____ Student does not have all required paperwork to proceed with application for experience, explanation attached

Date:____________________ Student Coordinator_______________________________________________

Student Advisor:

_____ Student has permission to proceed with application for this experience.
_____ Student does not have permission to proceed with application for experience, see attached explanation.

Date:____________________ Advisor__________________________________________________________
(Print and sign)

Office of Academic Affairs:

_____ Student has permission to proceed with application for this experience and is approved to participate in this elective.
_____ Student does not have permission to proceed with application for experience, see attached explanation.

Date:____________________ Associate Dean__________________________________________________
MERCER UNIVERSITY SCHOOL OF MEDICINE
VISITING MEDICAL STUDENT RECORD OF IMMUNIZATIONS

Name: ___________________________ DOB ________________ Phone_______________
Address: __________________________________________________________________

TB Testing(required)
A current PPD (Mantoux), done within six months before the first day of class.
PPD Reading ________mm Date________________,

Negative  Positive (per CDC criteria)

If current PPD is positive, or if student has a history of a positive PPD, a copy of a chest X-ray report within the last year must be attached.

REQUIRED IMMUNIZATIONS

Measles/Mumps/Rubella: two immunizations or a positive titer (blood test) required for all students born after 1956.

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Dose 1 M/D/Y</th>
<th>Dose 2 M/D/Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Or If immunizations were given separately, you must have dates (M/D/Y) for two measles, two mumps, and one rubella vaccination:

- Measles #1__________, Mumps #1__________,
- Measles #2__________, Mumps #2__________,
- Rubella__________.

Or Positive antibody titers (IgG); copy of lab report must be attached.

- Measles (Rubeola) titer: Date____________
- Mumps titer: Date_______________
- Rubella titer: Date_______________

Chickenpox (Varicella): TITER OR VACCINATION IS REQUIRED, EVEN WITH HISTORY OF DISEASE.

- Varicella vaccine: Date of #1____________ Date of #2____________

Or Positive Varicella titer(IgG). Copy of lab report must be attached.

Tetanus/Diphtheria: three immunizations and a booster or a positive titer (blood test) required for all students.

Dates of primary series: #1_________ #2_________ #3_________

And Date of last Td or Tdap(preferred) booster (must be within past 5 years)___________

Or Positive Tetanus titer (IgG). Copy of lab must be attached.

Positive Diphtheria titer (IgG). Copy of lab must be attached.

Polio: three immunizations and a booster or a positive titer (blood test) required for all students.

Dates of series #1_________ #2_________ #3_________ Booster Date___________

Or Positive Polio titer (IgG). Copy of lab must be attached.

Hepatitis B: Full series of three is recommended prior to enrollment; the first immunization is required, and the series must be completed at the recommended intervals.

Dates received: #1_________ #2_________ #3_________

A post-vaccine titer (IgG) is required to be done 1-2 months after the third dose to demonstrate immunity. If the titer is negative, a second series is required. If the series was completed more than two months ago, the titer is not required.

Titer: Date______ Results_________________ Copy of lab must be attached.

Information Certified by: ___________________________ Date: __________________________

(Signature of Health Care Official)