Below are the freshmen electives being offered for the first nine weeks of the spring semester beginning January 2, 2017 – March 3, 2017. Please be aware of the days you have ECM small group, Physical Diagnosis, or lab as these activities are required attendance and your freshmen elective cannot interfere with your attendance for these required classes.

**CBGM 5085 - Genomics and Personalized Medicine**

- **Department:** Center for Biotechnology and Genomic Medicine
- **Course Directors:** Ashok Sharma, MD
- **Days Offered:** Wednesday
- **Enrollment:** Max 10
- **Time:** 2-4pm
- **Location:** CA-4131

**Course Description:** Topics will include: genetic and environmental risk factors for complex diseases; next generation sequencing approaches in analysis of human genomes; genome-wide association studies; pharmacogenomics; use of personal genetic information in clinical medicine.

**Course Goals:** The human genome project and the next generation sequencing studies have heralded a new era of personalized medicine. The course will expose medical students to the design and interpretation of genomic studies of human populations and diseases and use of this knowledge for personalized medicine in the clinic.

**Course Objectives:** The objective of this course is to provide an educational foundation to understand the vision of a personalized medicine for prevention, diagnosis, and treatment of disease.

**Course Activities:** The course format will be a mix of lectures and hands-on data analysis. Laptops will be required for most sessions where students will explore the publicly available datasets and resources to understand the use genomics for individualized medicine.

**EMED 5085 – Freshmen Emergency Medicine Experience**

- **Department:** Emergency Medicine
- **Course Director(s):** Brad Reynolds, MD
- **Day Offered:** Any Day (includes Saturday and Sunday)
- **Enrollment:** Maximum: 3 per 2 hour block
- **Time:** 1-3pm, 3-5pm, 5-7pm, 7-9pm
- **Location:** MCG - Emergency Department

**Course Goals:** Students will learn firsthand what goes on in the Emergency Department.

**Course Objectives:** Students will learn firsthand what goes on in the Emergency Department.
**Course Activities:** Students will shadow faculty in the Emergency Department.

**Assessment:** Pass/Fail

(For additional information, call Amanda Zabala at ext. 4412)

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**EMED 5086 – Introduction to Wilderness Medicine**

**Department:** Emergency Medicine  
**Course Director(s):** Taylor Haston, MD  
**Day Offered:** Thursday  
**Enrollment:** Max 35  
**Time:** 1-3  
**Location:** Pavilion II, AF-1002

**Course Description:** Gain an overview of Wilderness and International Medicine.

**Course Goals:** Learn about risks and safety measures associated with wilderness and international outdoor activities.

**Course Objectives:** Series of lectures and workshops including topics such as:

- The Risk of Travel (Walking on the Moon)
- Wild Animal Attacks
- Insecticides and Repellents
- Mosquito Netting Workshop
- Orthopedic Injuries in the Wild
- Splinting Workshop
- Food Safety Workshop
- Lightning Injuries
- Water Purification Workshop
- Emergency Airways & Ethical Considerations

**Assessment:** Pass/Fail

(For additional information, call Amanda Zabala at ext. 4412)

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**EMED 5089 – Wilderness Medicine Elective – MedWar**

**Department:** Emergency Medicine  
**Course Director(s):** Michael Caudell, MD  
**Day Offered:** Thursday  
**Enrollment:** Minimum: 1 Maximum: 35  
**Time:** 3-5 pm  
**Location:** AF-1002 (Pavilion II)

**Course Objectives:** Students will demonstrate proficiency in developing, directing, and instituting CME wilderness medicine course (WM). Students will demonstrate knowledge of wilderness medicine skills by developing and directing case simulations.

**Course Activities:** Students will demonstrate knowledge of wilderness search and rescue, safety and medical plan development and implementation for WM course of approximately 200 participants.

**Assessment:** Pass/Fail

(For additional information, call Amanda Zabala at ext. 4412)
EMED 5091 – Emergency Medical Services and Disaster Medicine

Department: Emergency Medicine
Course Director(s): John McManus MD, MBA, MCR, FACEP
Day Offered: Wednesday
Enrollment: 2-4
Time: 1-3 pm
Location: Pavilion II, AF 2012

Course Description: A 2-hour interactive course that includes lecture, seminar, hands on education on EMS and disaster medicine. This course offers an introduction to out-of-hospital management of EMS and disaster care to include: fire and air EMS response, critical prehospital emergency conditions, tactical medicine, disaster and mass gathering support and management. EMS is a medical subspecialty that involves prehospital emergency patient care, including initial patient stabilization, treatment, and transport in specially equipped ambulances or helicopters to hospitals. The purpose of EMS subspecialty certification is to standardize physician training and qualifications for EMS practice, improve patient safety and enhance the quality of emergency medical care provided to patients in the prehospital environment, and facilitate further integration of prehospital patient treatment into the continuum of patient care.

Course Goals: To provide the student with introduction and overview of EMS disaster medicine.

Course Objectives: 1) Describe the system of delivery of healthcare in the prehospital environment and how it is integrated into the entire healthcare system. 2) List and understand the multiple agencies involved in healthcare delivery outside the hospital. 3) Describe how disaster and mass gathering care must be modified in these situations. 4) Understand the basic principles of medical oversight. 5) Demonstrate an understanding of the 911 system. 6) Understand the differences in education and skill of various EMS providers. 7) Demonstrate effective communication and patients, their families, and professional associates 8) Demonstrate an understanding of cost issues in medical practice and importance of effective resource allocation.

Course Activities: 2 hour sessions that are a mixture of: lectures, seminars, EMS and disaster class and training attendance

(For additional information, call Amanda Zabala at ext. 4412)

EMED 5092 – Introduction to Emergency Ultrasound & Emergency Procedures

Department: Emergency Medicine
Course Director(s): Eric Zevallos, MD
Day Offered: Wednesday
Enrollment: 1-30
Time: 3-5:30 pm
Location: Pavilion II, AF-1008

Course Description: Develop a foundation with emergency point-of-care ultrasound, learning image acquisition and image interpretation of the liver, heart, gallbladder, kidney, bladder, soft tissue structures as well as US guided procedures. Learn and practice common ER procedures (airway protection, line placement, suturing, and splinting)

Course Goals: Gain an early foundation of how ultrasound can guide evaluation and treatment of patients in the acute setting and become familiar with the most common ER procedures.

Course Objectives: Be able to identify normal anatomy of the heart, intra-abdominal organs, and superficial structures with the ultrasound as well as gain early guidance with US guided vascular access. Understand the indication and complications of common ER procedures as well as proper techniques to perform these procedures.

Course Activities: Review pre-made lectures, small group scanning sessions, ED scanning sessions and procedure labs with an ED physician

Assessment: Assessment based on student involvement during scanning and procedure sessions and demonstrations of very basic ultrasound skills and procedure skills after completion of the elective.
EMED 5093 – Adventures in Global Health – A Virtual Medical Trip

Department: Emergency Medicine  
Course Director(s): Daniel Kaminstein, MD  
Day Offered: Wednesday  
Enrollment: 5-25  
Time: 1-3 pm  
Location: CJ 3101

Course Description: Over the course of nine weeks students will be led on a virtual medical trip by several faculty members with extensive experience leading medical teams in the developing world. Student will help plan and execute a simulated medical outreach trip in an area of need. Topics will range from travel preparation to dealing with on the ground emergencies, and the challenge of patient care in resource limited settings. Sessions will be interactive and focused on group discussion with minimal time spent on didactic lectures. Hands on activities are also planned such as setting up and running a mobile laboratory.

Course Goals:
- Explore challenges of healthcare delivery in resource limited environments
- Develop teamwork skills in a group learning environment
- Expand understanding of how short term medical teams impact the local healthcare system

Course Objectives:
- Define travel preparation requirements when traveling abroad for medical work
- Learn how to handle logistical complications during group travel
- Outline challenges of delivering healthcare in a rural village environment
- Outline challenges of delivering healthcare in a resource limited hospital
- Review clinical cases from prior short term medical trips
- Define benefits and harms of short term medical work
- Outline approach to team crisis that develops during a medical work

Course Activities: Lectures, group discussion, problem solving sessions, hands on with mobile laboratory

Assessment: Based on student participation in weekly sessions

GMED 5071 – Introduction to Cardiac Cath Lab

Department: Cardiology  
Course Director(s): Deepak Kapoor, MD  
Day Offered: Friday  
Enrollment: 1-2  
Time: 1-3 pm  
Location: GMC, 6th floor, Cardiac Cath Lab, Rm 6616

Course Goals: Obtain better understanding about invasive and interventional cards

Course Objectives: Understanding basic views. Understand rationale behind interventions

Course Activities: Observation, didactic teaching at a workstation

Assessment Pass/Fail: Attendance
GMED 5092 - Current Topics in Translational Medical Research

Department: Pharmacology and Toxicology/Medicine
Course Director(s): Nevin Lambert, PhD
Day Offered: Thursday
Enrollment: 4-10
Time: 3 pm
Location: CB-3612

Course Goals: To familiarize students with translational research problems and the methods whereby they are investigated.

Course Objectives: Students will learn to comprehensively evaluate reports in the current translational medicine literature. They will learn to place research projects in the context of prior knowledge, appreciate the current state of a field, and critically evaluate research methodology, experimental design and interpretation, and statistical analysis.

Course Activities: Students will present and discuss recent reports in the translational medicine literature (Nature Medicine, JED, JCI)

Assessment Pass/Fail: Students will be graded on their presentation of a paper (preparation, content, and presentation), and their participation in discussions of papers presented by other students.

GMED 5098 – Physician’s Power to Protect

Department: Emergency Medicine
Course Director(s): Angela Williams, MFP, Dr. Neil Nickelsen, Dr. Paula Walker
Day Offered: Monday
Enrollment: 10-30
Time: 12-1 pm (lunch included)
Location: GB 1220A

Course Description: The Physician’s Power to Protect is a child sexual abuse preventative and intervention training to provide critical information on the issues surrounding child sexual abuse and how you can become a frontline defender. The course helps the physician better communicate about such a difficult topic as well as train on recognizing the emotional signs and symptoms often overlooked. The course also provides great insight when working with victims of child sexual abuse at any age. The course is broken down into 6 modules that include: 1. Child Sexual Abuse: The Basics, 2. Detecting Child Sexual Abuse. 3. Communicating Child Sexual Abuse, 4. Reporting and the Legal System, 5. Providing Resources. And 6. You are the Solution

The Physician’s Power to Protect was piloted in 2016 and this is the second time the course is being taught and will incorporate suggestions and feedback from last year which was to add a 6th module to allow for more time to practice communication skills and review case studies.

Course Goals: There are two overall goals for this curriculum. The first is to equip medical students with the knowledge and skills to predict and prevent child sexual abuse. The second is for students to be able to describe a comprehensive outline guiding the process of detecting, identifying, communicating, and reporting a CSA case. At least 80% of the students will be Course Objectives:

1. At least 80% of the students will be able to appropriately communicate with pediatric patients and their families regarding CSA.
2. At least 80% of the students will be able to identify the appropriate disclosure and reporting procedure when handling potential CSA cases.
3. At least 80% of the students will be able to identify and detect CSA.
4. At least 80% of the students will be able to appropriately communicate with pediatric patients and their families regarding CSA.
5. At least 80% of the students will be able to identify the appropriate disclosure and reporting procedure when handling potential CSA cases.
Course Activities: Surveys, case studies, guest lecturers, rape kit exhibit, elevator pitch memorization for caregivers, adult and child victims

Assessment: Requirement for “passing” the elective is to complete all modules, readings, and attendance. Pre and Post Surveys will be conducted.

OBGN 5087 – Elective in OB/GYN & Women’s Health

Department: OB/Gyn Department
Course Director(s): Dr. Erin Latif
Day Offered: Thursday
Enrollment: Minimum: 2 Maximum: 14
Time: 1-4 pm
Location: MCG-BB 7524

Course Goals: Expose students to various areas in the field of OB/Gyn to enhance interest in the profession and improve knowledge and skills in Women’s Health Care.

Course Objectives: 1. Introduce core topics in Ob/Gyn and Women’s Health.
2. Provide hands-on training with the use of models and demonstrations.
3. Enhance awareness of different areas of women’s health through direct clinical observation.

Course Activities: 1. Weekly lectures and videos
2. Model demonstration and training

Assessment: Per course director: S/U
Attendance will be documented by preceptors at various sites and at the introductory lecture each week

Please contact Yvonne Booker for addition information at 1-2543.

PEDS 5086 – Introduction to Pediatric Health Promotion/Disease Prevention Research

Course Director: Dr. Gaston Kapuku
Day Offered: Thursday
Enrollment: Max 6
Time: 2-3 pm
Location: HS1760 Georgia Prevention Institute

Course Description: The Georgia Prevention Institute (GPI) performs health promotion disease prevention studies on numerous subject cohorts. The studies concentrate on cardiovascular risk factors in the young that lead to development of "adult onset" disease such as hypertension, coronary artery disease, obesity and type 2 diabetes. Students will shadow faculty and research staff in their research activities. Topics include evaluation of genetic and environmental contributors to cardiovascular (CV) disease development in youth, neurohormonal mechanisms responsible for changes in CV structure and function, social and community determinants of health behavior, prevention of CV disease and type 2 diabetes in youth via exercise, stress reduction, and community interventions. The studies are performed in subject laboratories at the GPI as well as in the public school system. (See GPI web page, http://georgiahealth.edu/institutes/gpi/.
The student will be expected to complete an annotated bibliography in an area selected by the student and mentor, and give a brief (10-15 min) talk on the topic. Past students have successfully pursued further research activity at the GPI.

Course Goals: Develop familiarity with and interest in health promotion/disease prevention research methods.
Explore possible career path as research fellow.

Course Objectives: Student will shadow research faculty and staff in various projects (to be selected by student)
Annotated bibliography to be written on topic agreeable to student and selected mentor
PSRY 5090 - Phase 1 Research Elective in Psychotic Disorders

Department: Psychiatry
Course Director(s): Brian Miller, MD, PhD, MPH
Day Offered: Tuesday or Friday
Enrollment: Max 2
Time: 1-5 pm
Location: EG-3014

Course Description: This elective provides introductory experience in psychotic disorders research.

Course Goals:
1) To introduce the medical student to fundamentals of research in psychiatry
2) To introduce the medical student to the practice of reviewing scientific literature as would be relevant for dissemination of scientific information, such as poster presentations and scientific articles

Course Objectives:
1) The student will demonstrate basic understanding of areas of research in psychiatry, particular in psychotic disorders.
2) The student will examine and appraise current literature in a manner relevant for dissemination of scientific information.
3) The student will develop a presentation for the department journal club, case conference or any other appropriate venue; alternatively, the student will appraise literature for a peer-reviewed publication

Course Activities:
Under the supervision of Dr. Miller, observation and participation as experience and interest dictate in:
1) Reviewing current literature, summarizing it as appropriate for departmental journal club, case conference or any other appropriate venue, and/or for a peer reviewed publication.
2) Developing and working on an independent research project
3) Observing psychiatric assessments used in clinical research

Associated didactic learning experiences:
1) Weekly meetings with Dr. Miller to discuss core readings and literature review findings. Meetings will be designed to foster an understanding of clinical research and treatment of schizophrenia and related disorders.
2) Student will spend a minimum of 2 hours during the course observing clinical research assessments in patients and/or outpatients with psychotic disorders at AU.
3) Student will spend a minimum of 3 hours per week in directed study with Dr. Miller collaborating on the Independent research project.

Students will have a mid-rotation evaluation and a final evaluation. At the final evaluation student should Present a summary of their independent research.
### RADM 5085 - Introduction to Radiology

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<thead>
<tr>
<th>Department:</th>
<th>Radiology</th>
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<tbody>
<tr>
<td>Course Director(s):</td>
<td>Kristopher Lewis, MD</td>
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<tr>
<td>Day Offered:</td>
<td>Wednesday</td>
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<tr>
<td>Enrollment:</td>
<td>Minimum: 2  Maximum: 8</td>
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<tr>
<td>Time:</td>
<td>1:30 pm-4:30 pm</td>
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<tr>
<td>Location:</td>
<td>Various locations in the Department of Radiology</td>
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**Course Goals:** The primary goal of the elective is for the participating medical student to develop a better understanding of the functions of radiology as a contributor to primary care of the patient.

**Course Objectives:** Specific objectives have been written in the Course Outline for the clinical rotations as a guide to student learning in that clinical area.

**Course Activities:** This course is a nine-week elective for Phase I medical students. The time is divided into a series of rotations through most of the major areas of the radiology department at MCGHI Adult Hospital, Children's Medical Center and the Georgia Radiation Therapy Center. It is expected that students be on site and prepared to participate in the rotation by 1:30 PM each Wednesday during the nine weeks and remain until 4:30 p.m. unless otherwise indicated or dismissed by the attending radiologist or the radiology resident on the service.

**Assessment:** A RADM 5085 elective journal will be required to document and describe the activities and type of studies that are observed in each clinical rotation site.

Contact Ms. Victoria Coleman (706-721-2464) vcoleman@augusta.edu

### SURG 5084 - Introduction to Plastic Surgery

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<tr>
<th>Department:</th>
<th>Surgery</th>
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<tbody>
<tr>
<td>Course Director:</td>
<td>Jack C. Yu</td>
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<tr>
<td>Day Offered:</td>
<td>Friday</td>
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<tr>
<td>Enrollment:</td>
<td>Minimum: 10 Max: 20</td>
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<tr>
<td>Time:</td>
<td>4:30-5:30 pm</td>
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<td>Location:</td>
<td>MCG-HB 5051 (Plastic Surgery Conference Room)</td>
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**Course Goals.** To increase the learners’ understanding of plastic surgery by providing direct, accurate, practical information.

**Course Objectives:**

1. Learners will be able to describe how to become a plastic surgeon in the US.
2. Learners will be able to list 6 subspecialties within plastic surgery
3. Learners will be able to recognize commonly used surgical instruments
4. Learners will be able to perform simple suture repairs
5. Learners will be able to conduct themselves properly in operating room settings
6. Learners will be able to describe how wounds heal in normal and abnormal conditions

**Course Activities:** We will meet on Friday afternoon from 4:30 to 5:30 pm during course

**Assessment:** We will use the exit evaluation as the assessment for cognitive domain objectives (1, 2, and 6)

For the 3 objectives related to psychomotor skills (3, 4, and 5) time to completion to repair standardized simulated wound and future OR conduct will be used as outcome measure.