

**MED 820****Allergy & Immunology**Course Director(s):

John Ramey, MD

Course Coordinator(s):

John Ramey

729-2374

jtramey@yahoo.com

Student Limit

<b>Blk 1</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
<b>Blk 1A</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 2 - July 13	<b>Blk 3A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Aug 27 - Sept 7	<b>Blk 5B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Nov 5 - Nov 16	<b>Blk 8</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Jan 28 - Feb 22	<b>Blk 10A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Mar 25 - Apr 5
<b>Blk 1B</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 16 - July 27	<b>Blk 3B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Sept 10 - Sept 21	<b>Blk 6</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nov 19 - Dec 14	<b>Blk 8A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 28 - Feb 8	<b>Blk 10B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Apr 8 - Apr 19
<b>Blk 2</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	July 30 - Aug 24	<b>Blk 4</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sept 24 - Oct 19	<b>Blk 6A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Nov 19 - Nov 30	<b>Blk 8B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Feb 11 - Feb 22	<b>Blk 11</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Apr 22 - May 17
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**COMMENTS:**

Please call Dr. Ramey at 843-729-2374 to get instructions about the rotation. If you start on a Monday, then please come to 9165 University Blvd at 8:30am. This course is also available as a 2 week rotation. Please contact Dr. Ramey for prior approval.

**COURSE DESCRIPTION:**

Students will see both ADULT and PEDIATRIC patients 5 days a week in our outpatient offices. Students will learn about asthma, allergic skin diseases, food allergies, insect allergies, and immune deficiencies. They will also learn about the economics of an outpatient office.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Diagnosis and treat allergic and non-allergic rhinitis
2. Understand indications for skin testing and immunotherapy
3. Diagnosis and treat asthma
4. Diagnosis and treat atopic dermatitis and urticaria
5. Diagnosis and treat chronic sinusitis.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Students will be given an allergy/immunology review book to read during the rotation.
2. Direct observation by faculty during direct patient care and review of other clinical and didactic activities (history and physical, progress notes, prescriptions, etc.)
3. Students will take an ungraded quiz at the end of the rotation. Dr. Ramey will review the test with the student to help them evaluate knowledge

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Allergic and non-allergic rhinitis
2. Asthma/COPD
3. Atopic dermatitis/Contact dermatitis/Urticaria
4. Recurrent infections
5. Food allergy

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation by physician
2. Written Examination (Medical Knowledge)
3. Clinical Evaluation Form (Patient Care and Professionalism)
4. Interaction with patients (Patient care)
5. Staff interaction (Professionalism and interpersonal skills)

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 832

A Month in the CTRC

Course Director(s):

Carol Wagner, MD

Perry Halushka, MD

Course Coordinator(s):

Megan Rock

792-8892

rockm@musc.edu

Student Limit

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COMMENTS:

This course is only for MD/PhD students.

COURSE DESCRIPTION:

The objective of this elective is to help students write a research proposal in the format of a NRSA F32 or R21 that expands on their clinical, basic science or translational research. The course consists of research topic specialist lectures, literature review, completion of a mini-course covering basics of human subject regulations, active discussion about designing various clinical and translational research studies, development of a clinical study including sample size calculation and power analysis, how to set up a database for your study, and how to statistically analyze your data. Completion of this course will provide students with an excellent foundation in translational research, a relevant addition to a basic science base.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Develop a clinical investigation protocol based on the student's dissertation and/or research interest
2. Apply appropriate statistical approaches in developing a clinical protocol.
3. Understand the basics of the informed consent process, IRB review, protection of human subjects, regulations etc.
4. Employ effective strategies for patient recruitment and enrollment.
5. Effective strategies for managing research team or writing groups.
6. Understand the importance of preliminary data, rationale for methodology and experimental design in the context of the presented research study.

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Lectures from various research topic specialists across campus
2. Successful completion of the Core Clinical Research Training
3. Attend IRB and CTRC Advisory Committee meetings
4. Literature review
5. Rounds/Discussions

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

N/A

EVALUATION / FEEDBACK METHODS:

1. Clinical Protocol Development
2. Participation in discussions
3. Core Clinical Research Training Examination
4. Interpersonal/Communication Skills
5. Practice-Based and Life-Long Learning in terms of scientific article relevance and application of various studies to your own study
6. Feedback during daily classes
7. Grade based on course participation, attendance, translational study design, presentation and mock R21 proposal

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 833****Coronary Care Unit/Cardiology****Course Director(s):**

Salvatore Chiaramida, MD

**Course Coordinator(s):**

Mary Ann Snell

792-7282

snellma@musc.edu

**Student Limit**

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**COMMENTS:****COURSE DESCRIPTION:**

The student will be assigned to a Cardiology team admitting patients to CCU. He/she will work closely with the residents, fellow and attending in the evaluation and management of CCU patients. Clinical skills will be closely supervised and improved during the month rotation. Students will attend all cardiology conferences including Imaging Conference on Mondays, CHF conference on Tuesdays, Cath Conference on Wednesdays, Cardiology Grand Rounds on Thursdays and Electrophysiology Conference on Fridays. Students will also have an opportunity to advance basic clinical skills, EKG interpretation, as well as develop better understanding of the role of modern diagnostic and therapeutic modalities in the management of acutely ill cardiac patients.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Become familiar with admission criteria for the Coronary Care Unit.
2. Develop skills in the management of acute cardiac illnesses, including myocardial infarction, arrhythmia, and congestive heart failure.
3. Better understand hemodynamic monitoring and management of critically ill patients, including the role of percutaneous coronary intervention, pacemakers, ICDs (implantable cardiac defibrillator), IABPs (intra-aortic balloon pump), and VADs (ventricular assist device).
4. Perform under direct supervision, procedures, including placement of arterial lines, central venous catheters, and Swan Ganz catheters.
5. Demonstrate professional demeanor, ethical behavior, and effective and professional interpersonal and communication skills in interactions with patients.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Perform the admission work-up of new patients assigned him/her by the supervising attending physician and/or fellow and/or resident.
2. Continue on a daily basis to evaluate his/her assigned patients (through follow-up histories and physicals on a daily basis (or more often as appropriate) plus reviewing all diagnostic testing results).
3. Present on a daily basis his findings and interpretations on his/her new and follow-up patients to the supervising physicians on rounds.
4. Perform all appropriate written documentation on his/her assigned patients including filling out admission H&P forms, writing daily progress notes in the standard format, and writing orders and filling out associated test requisition forms (for co-signature by a supervising physician in accordance with hospital policy).
5. Perform necessary procedures suitable for him/her level of skill such as placement of arterial lines, central venous catheters, and Swan Ganz catheters.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Coronary Artery disease
2. Congestive Heart Failure
3. Arrhythmia
4. Valvular heart disease

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 835****Hospice & Palliative Care**Course Director(s):

Paul Rousseau, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student  
Limit

<b>Blk 1</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
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**COMMENTS:****COURSE DESCRIPTION:**

This course is designed to expose 4th year medical students to how to approach the dying patient via participation on the inpatient palliative care consultation service.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Manage symptoms experienced by the dying patient.
2. Express empathy to the patient's family.
3. Discuss end of life issues with the patient and family.
4. Perform an appropriate history and physical for the dying patient.
5. Write a palliative care consultation note.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Inpatient experience (50% of time): Palliative Care Consultation Service, Pain & Symptom Management Consultation Service, Palliative Care Interdisciplinary Team Meeting.
2. Community & Ambulatory Experience (40% of time): Hospice of Charleston - home visits, interdisciplinary team meetings, bereavement support, & Hospice House.
3. Structured learning & discussion (10% of time): Read select references in Pain & Palliative Care & discuss w/faculty (1/2 day per wk) and read brief, non-medical reference & discuss.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. The student will encounter patients who are dying from any possible disease admitted to MUSC.

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 836****Medical Intensive Care Unit**Course Director(s):

Antine Stenbit, MD, PhD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

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**COMMENTS:****COURSE DESCRIPTION:**

This course is an opportunity for fourth year medical students to experience a busy medical intensive care unit and is an introduction to management of adult critically ill patients with a variety of complex diseases. They will be exposed to a variety of critical illnesses and the procedures that occur in the MICU. The students will be exposed to ventilator management, sepsis management, central line placement, and end of life discussions. This is a unique opportunity for a fourth year medical student to familiarize himself or herself with a hectic ICU before starting an internship.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Understand the admission process to the MICU from the admission criteria to performing at the level this includes: performing an admission history and physical, developing a differential diagnosis and treatment plan
2. Develop skills in the management of critically ill patients secondary to a variety of illnesses, which includes understanding hemodynamic monitoring, and management of critically ill patients, including the use of ventilators and blood pressure support.
3. Perform under direct supervision, procedures, including placement of arterial lines, central venous catheters, and Swan Ganz catheters.
4. Practice reviewing relevant information in the medical literature regarding their patients' disease state.
5. Demonstrate effective and professional interpersonal and communication skills in interactions with patients and demonstrate professional demeanor and ethical behavior.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. The student will participate in all aspects of care including diagnosis and management.
2. They will receive instruction in ventilator management (including bi-vent, oscillator, and non invasive ventilation), pulmonary artery catheter use, and central line use.
3. They will receive instruction in pharmacotherapy of the critically ill, and will have the opportunity to learn a variety of procedures such as central line placement, arterial line placement, and the use of ultrasound in the ICU.
4. Attendance at teaching rounds and pulmonary conferences including the monthly Critical Care Morbidity and Mortality conference.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Acute hypoxic/hypercarbic respiratory failure
2. Septic Shock
3. Acute Respiratory Distress Syndrome
4. Acute Liver Failure
5. Pneumonia

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

The students will stay 4 times over the 4 weeks until 9pm in order to see how the MICU functions after hours.

MED 841

Wilderness Medicine

Course Director(s):

Sarah Sterner, MD

Simon Watson, MD

Course Coordinator(s):

Ingrid Schneider

792-0269

shneider@musc.edu

Student  
Limit

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Blk 1A	<input type="checkbox"/>	<input type="checkbox"/>	July 2 - July 13	Blk 3A	<input type="checkbox"/>	<input type="checkbox"/>	Aug 27 - Sept 7	Blk 5B	<input type="checkbox"/>	<input type="checkbox"/>	Nov 5 - Nov 16	Blk 8	<input type="checkbox"/>	<input type="checkbox"/>	Jan 28 - Feb 22	Blk 10A	20	<input checked="" type="checkbox"/>	Mar 25 - Apr 5
Blk 1B	<input type="checkbox"/>	<input type="checkbox"/>	July 16 - July 27	Blk 3B	<input type="checkbox"/>	<input type="checkbox"/>	Sept 10 - Sept 21	Blk 6	<input type="checkbox"/>	<input type="checkbox"/>	Nov 19 - Dec 14	Blk 8A	<input type="checkbox"/>	<input type="checkbox"/>	Jan 28 - Feb 8	Blk 10B	<input type="checkbox"/>	<input type="checkbox"/>	Apr 8 - Apr 19
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				Blk 5	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 16	Blk 7A	<input type="checkbox"/>	<input type="checkbox"/>	Jan 2 - Jan 11	Blk 9B	<input type="checkbox"/>	<input type="checkbox"/>	Mar 11 - Mar 22				

**COMMENTS:**

There is a required \$180 course fee that will cover your Advanced Wilderness Life Support certification as well as some of the outdoor excursions. Students are required to complete a waiver form. All students will be expected to be able to engage in moderate physical activity.

**COURSE DESCRIPTION:**

Students will learn to save lives in the wilderness while earning Advanced Wilderness Life Support (AWLS) Certification. The course uses structured didactic sessions and hands-on practical instruction in a variety of outdoor settings to teach the diagnosis and initial management of the most common wilderness injuries and illnesses.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Demonstrate the correct steps in patient assessment in the wilderness.
2. Describe the initial treatment guidelines for life support in the wilderness.
3. Describe the management of common medical and trauma emergencies and urgencies in the wilderness while awaiting definitive care

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Attend didactic sessions to gain medical knowledge about wilderness medicine
2. Attend practical sessions to gain hands-on experience in patient assessment and stabilization
3. Prepare and present to the group a lecture on a chosen topic

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Students will learn and practice patient assessment and stabilization skills utilizing learners in the scripted roles of standardized patients.

**EVALUATION / FEEDBACK METHODS:**

1. End of elective written exam (Medical Knowledge, Patient Care)
2. End of elective practical exam (PC, Interpersonal/Communication Skills)
3. Evaluation of content and presentation of lecture (Medical Knowledge, Practice-Based Learning, Interpersonal/Communication Skills)
4. Narrative description based on learner participation and teamwork skills (Interpersonal/Communication Skills, Professionalism)

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 842****Gastroenterology Hepatology MC**Course Director(s):

David Koch, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student  
Limit

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**COMMENTS:**

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.

**COURSE DESCRIPTION:**

This is an outpatient clinical (2 weeks) and inpatient consultation service (2 weeks) rotation designed to expose the 4th year medical student to the field of hepatology. The student will be exposed to patients with liver disease and learn the diagnostic approach as well as medical management of these patients. The student will also observe endoscopic procedures and understand their role in the care of these patients as well.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Demonstrate proficiency in assessing patients with liver disease and understanding the components of the history and physical exam that are essential for managing these patients.
2. Understand the pathophysiology and management of complications that result from cirrhosis and portal hypertension, i.e. Variceal Bleeding, Encephalopathy, Ascites, Spontaneous Bacterial Peritonitis, Hepatopulmonary Syndrome, Portopulmonary Hypertension, Hepatorenal Syndrome, and Hepatocellular Carcinoma.
3. Gain an appreciation for timing of referral for liver transplant evaluation by assessing severity of liver disease and short term prognosis in patients with cirrhosis.
4. Observe the comprehensive evaluation required of patients undergoing consideration for liver transplantation and the selection process that occurs in determining a patients' potential candidacy.
5. Become familiar with immunosuppressive agents post-transplant, including their mechanism of action, common side effects, and toxicities.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Students will participate in the General Hepatology Clinics and Liver Transplant Clinics under the Attending supervision. In each clinic, students will be specifically responsible for assessing and formulating a management plan for the patients seen as an Initial Clinic Visit (ICV) in the respective clinics. Additionally, students will evaluate interesting patients seen in follow up in the clinics who require continued management of their liver disease.
2. Students will round with the Liver Attending on the inpatient Liver Service and hospital Liver Consults a minimum of 1 day per week.
3. Students will observe outpatient endoscopy, to learn the management of patients with esophageal varices, including prophylactic band ligation. If available, students will also observe the inpatient endoscopic management of acute upper GI portal hypertension bleeding.
4. Students will attend the following Hepatology Sectional didactic conferences: Monday afternoon GI Fellows' Teaching Conference, Tuesday afternoon Liver Biopsy Conference, Wednesday morning Liver Transplant Selection Committee Meeting, and Wednesday afternoon Liver Tumor Board.
5. Time permitting; students will observe a liver transplantation under the supervision of the transplant surgeons.
6. Students will receive didactic teaching.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Ascites
2. Esophageal Varices
3. Hepatic Encephalopathy
4. Spontaneous Bacterial Peritonitis
5. Post-Liver Transplant
6. Hepatitis C
7. Alcoholic Liver Disease

**EVALUATION / FEEDBACK METHODS:**

1. The Clinical Evaluation Form will be used to evaluate the student in all the Core Competencies (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication skills, Practice-Based and Life-Long Learning, and System-Based Learning).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance
3. The attending physicians will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation.

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 851

Nephrology MC

Course Director(s):

Rachel Sturdivant, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

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**COMMENTS:**

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.

**COURSE DESCRIPTION:**

Students rotating on the Nephrology Senior Core will care for patients with Acute Kidney Injury (AKI) and End Stage Renal Disease in the hospital with an emphasis on the evaluation, diagnosis and treatment of AKI. Students will also be expected to attend at least one ambulatory clinic per week to understand the care of the patient with Chronic Kidney Disease (CKD) and to participate in the evaluation, diagnosis and treatment of renal disease in the outpatient setting. Preparation for renal replacement therapy including dialysis and transplant in addition to the mechanics of dialysis will be emphasized.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Initiate an appropriate diagnostic evaluation for Acute Kidney Injury, interpret laboratory and radiological studies and synthesize a differential diagnosis.
2. Understand the indications for dialysis therapy and the mechanics of different modes of dialysis.
3. Evaluate and treat common electrolyte and acid base disorders.
4. Understand treatment rationales and medications used for hypertension.
5. Understand the public health significance of Chronic Kidney Disease and therapies to prevent progression and manage co-morbidities.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Students will evaluate patients both in hospital and in clinic and provide a written history and physical to the attending for feedback.
2. Students will present patients orally to the attending physician to attain feedback on presenting cohesively and on ability to synthesize information and provide a well thought out plan.
3. Students will participate in team discussions and attending lectures both in hospital and in the clinic.
4. Students will attend nephrology lectures covering specific clinical topics, pathological review and recent journal articles.
5. Students will be expected to continue independent scholarly activity by reading journal articles and textbooks pertinent to their specific patients.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Acute Kidney Injury
2. Acute Glomerulonephritis
3. Electrolyte Disorders – hyponatremia, hypernatremia, hyperkalemia
4. Proteinuria with and without nephrotic syndrome
5. Acid Base Disturbances

**EVALUATION / FEEDBACK METHODS:**

1. Clinical Evaluation Form (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills, Practice-Based Learning, Systems-Based Learning)
2. Completion of Urinalysis Laboratory Module (Medical Knowledge)
3. Graded History and Physical with Assessment and Plan (Patient Care, Interpersonal/Communication Skills)
4. Oral Presentation on a topic of your choice to your team. (Medical Knowledge, Practice-Based Learning, Interpersonal/Communication Skills)

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 855

Cardiology MC

Course Director(s):

Valerian Fernandes, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

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**COMMENTS:**

4 students will be assigned to the ART and 3 students will be assigned to the VA therefore VA logins and codes must be current and up-to-date.

**COURSE DESCRIPTION:**

This is an inpatient consultation service rotation designed to expose 4th year medical students to the field of cardiology. The student will be exposed to patients with cardiac diseases, learn the diagnostic approach, as well as medical management of these patients.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Take a good cardiac history and understand cardiac risk factors.
2. Perform a complete cardiovascular examination.
3. Understand the use of lab tests, EKGs, ECHO, stress testing and cardiac invasive procedures in working up cardiac disorders.
4. Understand basic cardiac, coronary and electrophysiological anatomy & basic cardiac hemodynamics.
5. Present new cases confidently, follow-up cases allotted and learn to work efficiently as a team member.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. When on the consult service students will practice reviewing charts, obtaining medical history, performing physical examination, reviewing laboratory data, discussing gathered material with fellow and attending, and writing up consult report.
2. Students should carry 2-4 patients.
3. Students should attend conferences and didactic sessions that the Division offers.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Coronary Artery Disease
2. Congestive Heart Failure
3. Arrhythmia
4. Valvular heart disease
5. Risk Factor Modification (EM, HTN, Hyperlipidemia, Smoking)

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 858****Gastroenterology Luminal MC**Course Director(s):

Larry Comerford, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

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**COMMENTS:**

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.

**COURSE DESCRIPTION:**

This is an outpatient clinical (2 weeks) and inpatient consultation service (2 weeks) rotation designed to expose the 4th year medical student to the field of gastroenterology. The student will be exposed to patients with digestive diseases and learn the diagnostic approach as well as medical management of these patients. The student will also observe endoscopic procedures and understand their role in the care of these patients as well.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Recognize typical clinical presentations of various etiologies of abdominal pain (peptic ulcer disease, cholecystitis, pancreatitis, bowel obstruction).
2. Recognize and understand the treatment of esophageal disorders such as GERD, dysphagia, Barrett's esophagus.
3. Understand the basic causes of diarrhea and outline an appropriate work-up for both acute and chronic diarrhea.
4. Understand the role of endoscopy for both screening and therapeutic purposes.
5. Demonstrate professional demeanor, ethical behavior, and effective communication skills in interactions with patients.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Bedside teaching is done during daily team rounds (inpatient consultation service) or in clinic (outpatient service).
2. Formal didactic GI Divisional conferences are held on a weekly basis.
3. Informal didactic sessions are held throughout the rotation focusing on topics/cases proposed by the student/housestaff.
4. Observation of endoscopic procedures such as EGD, colonoscopy, ERCP, EUS, small bowel capsule study, and motility studies.
5. Directed reading on general and selected topics in Gastroenterology.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Peptic ulcer disease
2. Cholecystitis
3. Pancreatitis
4. Bowel obstruction
5. Inflammatory bowel disease
6. GERD
7. Dysphagia
8. Diarrhea: acute vs chronic
9. Irritable bowel syndrome

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).
4. Attendance at didactic conferences: Monday afternoon GI Fellows' Teaching Conference, Tuesday morning Medicine Grand Rounds, Tuesday afternoon GI Luminal Pathology Conference, Wednesday morning Pancreas – Biliary/ GI Research Conference.

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 859****Hematology/Oncology MC**Course Director(s):

Larry Afrin, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

**Student  
Limit**

<b>Blk 1</b>	<input type="checkbox"/> 4	<input checked="" type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/> 4	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/> 4	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
<b>Blk 1A</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 2 - July 13	<b>Blk 3A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Aug 27 - Sept 7	<b>Blk 5B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Nov 5 - Nov 16	<b>Blk 8</b>	<input type="checkbox"/> 4	<input checked="" type="checkbox"/>	Jan 28 - Feb 22	<b>Blk 10A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Mar 25 - Apr 5
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**COMMENTS:**

ALL students will rotate over at the VAH weekly for clinic so must be current with VA logins and codes before starting this rotation. Two students will be assigned to ART and two students will be assigned to the VA.

**COURSE DESCRIPTION:**

This course introduces the student to the general approach to diagnosis and management of common hematologic and oncologic disorders. The student will have the opportunity to see new and existing inpatients and outpatients with such disorders, acquire the skills needed to take specialty-appropriate histories and perform specialty-appropriate physical exams in such patients, and formulate specialty-appropriate assessments and management plans. The student will also have the opportunity to attend didactic opportunities provided by the Division of Hematology/Oncology. The student's learning will be guided by faculty attending physicians and fellows in the Division of Hematology/Oncology.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Demonstrate proper techniques for interviewing a patient to obtain a medical history and performing a physical examination in the inpatient setting.
2. Present patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format.
3. Document patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format.
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in hematology/oncology.
5. Perform diagnostic and lab test interpretation skills commonly used in hematology/oncology.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. The student will be assigned to the Consultation Service and will also participate in outpatient clinics.
2. They will receive formal training with the instructor in the interpretation of peripheral blood smears and bone marrow aspirates.
3. Participation in formal conferences of the Hematology/Oncology Division, including the Friday Seminar Series, Chief-of-Service rounds, Consultation Service conference, tumor boards and Journal Club.
4. Case-by-case discussion on consult rounds and in outpatient clinics.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Anemia
2. Hereditary and acquired bleeding/clotting disorders
3. Hematologic malignancy including but not limited to leukemia and lymphoma
4. Solid organ tumors

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 861****Infectious Disease MC****Course Director(s):**

Preston Church, MD

**Course Coordinator(s):**

Mary Ann Snell

792-7282

snellma@musc.edu

**Student Limit**

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**COMMENTS:****COURSE DESCRIPTION:**

This is an outpatient clinical and inpatient consultation service rotation designed to expose the 4th year medical student to the field of Infectious Disease. The student will be exposed to patients with infectious disease and learn the diagnostic approach as well as medical management of these patients.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Diagnosis and assess common community and hospital acquired infections.
2. Learn basic aspects of antimicrobial treatment of proven and suspected infectious diseases.
3. Learn the rational use of anti-infective therapeutic agents.
4. Understand the basics of HIV diagnosis and management, the identification of complications in the HIV infected patient including prevention and management.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. This rotation consists of 2 weeks of consultation rounds with the infectious disease attending, fellow and medical resident at MUHA providing extensive exposure to the diagnosis and treatment of infectious diseases precipitating hospital admission or occurring during hospitalization for non-infectious problems with two additional weeks spent in the Infectious Diseases clinics.
2. Clinical experience is supplemented and extended by case conferences, Journal Club and a didactic lecture series. The didactic series is an 8 lecture series repeated each month by all faculty and fellows and provides an introduction to the practice of infectious diseases.
3. A case based textbook is provided to each student at the beginning of the rotation.
4. A written quiz is administered at the end of the rotation and is based upon the content and cases in the book.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. HIV/AIDS
2. Wound infections
3. Prosthetic joint infections
4. Osteomyelitis
5. Patients on home IV antibiotics
6. Infectious disease unique to travel or tropical environments
7. Exposure to travel medicine counseling, transplant infectious diseases, and the nontuberculous mycobacteria clinic are also available.

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).
4. Written quiz at the end of the rotation (medical knowledge).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 862

Endocrinology MC

Course Director(s):

Beatrice Hull, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

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**COMMENTS:**

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.

**COURSE DESCRIPTION:**

During this course 4th year medical student will see patients with endocrine disorders. A student will be able to establish a diagnostic and treatment plan. A student will also learn about the latest research developments in the field of endocrinology.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Learn pathophysiology of common endocrine disorders
2. Learn to evaluate endocrine disorders commonly seen in primary care
3. Learn treatment strategies for these diseases
4. Learn the importance of laboratory investigation in evaluations
5. Introduction to endocrine research by faculty investigators

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Student will see patients in attending clinics
2. Student will work with inpatient consultation team and will see patients in inpatient setting
3. Student will participate in weekly grand rounds and journal club

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Diabetes Mellitus (Type I and II)- 10
2. Diseases of the Thyroid - 5
3. Diseases of the Adrenal Gland - 3
4. Osteoporosis - 3

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills)
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies)
3. The attending physicians will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies)

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 864****Internal Medicine Externship**Course Director(s):

Deborah DeWaay, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

<b>Blk 1</b>	<input type="checkbox"/> 5	<input checked="" type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/> 5	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/> 5	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
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**COMMENTS:**

Some students will be assigned to the VA so must be current with their VA login and codes before starting the rotation.

**COURSE DESCRIPTION:**

The Externship is structured to give students a broad-based experience in managing acutely ill general medicine patients. It is designed to develop the clinical skills necessary to diagnose and treat undifferentiated medical patients with a wide range of illnesses. The rotation provides each extern with "the intern" experience that is directly supervised by expert faculty individually or with a 2nd or 3rd year resident. The student becomes an integral part of the hospital team.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. To enhance the extern's history taking and physical diagnosis skills to the level of an intern.
2. To develop differential diagnoses and formulate a treatment plan on acutely ill patients at the level of an intern.
3. To manage the inpatient illnesses which are commonly cared for by the general internist.
4. To care for 4-5 patients at a time.
5. To understand the indications/need for appropriate subspecialty consultation.
6. To begin the process of understanding both appropriate pain control and the tenets of end of life care.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. The majority of teaching on the General Medicine service is case-based at the time of clinical encounters. Inpatient rounds provide the best opportunities for education at the bedside. This teaching can include demonstration of history taking or examination skills, modeling communication or exploration of medical knowledge, with an explicit focus on the published clinical evidence supporting clinical decision-making.
2. Externs are expected to attend morning report three days per week, Grand Rounds on Tuesdays and noon conference daily.
3. The attending physician may also conduct didactic sessions on multiple occasions throughout the month.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Students care for a diverse patient population with respect to age, ethnicity, gender and socioeconomic status.
2. Students will care for patients with a wide variety of clinical syndromes including chest pain, coronary artery disease, CVAs, CHF, diabetes mellitus, DKA, pneumonia, COPD, asthma, pyelonephritis, acute and chronic renal insufficiency, SLE, vasculitis, dementia and many others.

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

**VA:** Night shifts: Every 6th day the Extern will do a day shift but stay until 8pm. Each Extern will do at least 4 of these shifts. Every 6th night the Extern will do a shift from 8pm until 1pm the following day. Each Extern will do at least 4 of these shifts. Days off: The students may have 3 days off per month. They must be taken on non-call days and non-post call days.

**MUH General Medicine Teaching Service:** Night shifts: Every 6th day the Extern will do a day shift but stay until 8pm. Each Extern will do at least 4 of these shifts. Every 6th night the Extern will do a shift from 8pm until 1pm the following day. Each Extern will do at least 4 of these shifts. The Night shifts must be done on days the team is on call. Please see the example schedule for details. Days off: The students may have 3 days off per month. They must be taken on non-call days and non-post call days.

**MUH Private Hospitalist Service:** There are no night shifts for this service. Instead, Externs need to take 9 calls until 9pm in the month. The calls must be taken between Monday and Friday. Two externs should not be on call at the same time. Please contact the Hospitalist on call starting at 7pm to have them staff any admissions you have during that time. Days off: The Extern may have 3 additional days off. They need to be taken on a Saturday or a Sunday. One student must be there for every weekend day (if 2 students are on a rotation). Students need to cross cover each other's patients on the weekends.

MED 865

Pulmonary Medicine MC

Course Director(s):

Antine Stenbit, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student  
Limit

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Blk 1B	<input type="checkbox"/>	<input type="checkbox"/>	July 16 - July 27	Blk 3B	<input type="checkbox"/>	<input type="checkbox"/>	Sept 10 - Sept 21	Blk 6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nov 19 - Dec 14	Blk 8A	<input type="checkbox"/>	<input type="checkbox"/>	Jan 28 - Feb 8	Blk 10B	<input type="checkbox"/>	<input type="checkbox"/>	Apr 8 - Apr 19
Blk 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	July 30 - Aug 24	Blk 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sept 24 - Oct 19	Blk 6A	<input type="checkbox"/>	<input type="checkbox"/>	Nov 19 - Nov 30	Blk 8B	<input type="checkbox"/>	<input type="checkbox"/>	Feb 11 - Feb 22	Blk 11	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Apr 22 - May 17
Blk 2A	<input type="checkbox"/>	<input type="checkbox"/>	July 30 - Aug 10	Blk 4A	<input type="checkbox"/>	<input type="checkbox"/>	Sept 24 - Oct 5	Blk 6B	<input type="checkbox"/>	<input type="checkbox"/>	Dec 3 - Dec 14	Blk 9	<input type="checkbox"/>	<input type="checkbox"/>	Feb 25 - Mar 22	Blk 11A	<input type="checkbox"/>	<input type="checkbox"/>	Apr 22 - May 3
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				Blk 5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oct 22 - Nov 16	Blk 7A	<input type="checkbox"/>	<input type="checkbox"/>	Jan 2 - Jan 11	Blk 9B	<input type="checkbox"/>	<input type="checkbox"/>	Mar 11 - Mar 22				

**COMMENTS:**

Three students will be assigned to MUH and one student will be assigned to the VA therefore students must be current with VA logins and codes before starting this rotation.

**COURSE DESCRIPTION:**

This course is designed to expose fourth year medical students to the common pulmonary disease that are seen in the in patient setting on a consultative basis. The students will participate in the care of pulmonary patients on the pulmonary consult service, be exposed to common pulmonary procedures such as thorocentesis and bronchoscopy. The students will learn how to interpret pulmonary function test and the appropriate indications for bronchoscopy.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Demonstrate proper techniques for interviewing a patient to obtain a medical history, performing a physical examination, analyze, synthesize, and integrate pertinent patient data, and finally the formulation of a comprehensive ordered differential diagnosis in the inpatient setting.
2. Present and document patient data gathered from patient interviews, physical examinations, and laboratory sources, including progress notes on patients, in standardized format.
3. Perform diagnostic and lab test interpretation skills commonly used in Pulmonary Medicine (e.g. interpret chest radiographs and pulmonary function tests) and identify issues related to the cost-effectiveness of diagnostic evaluations and patient care.
4. Apply knowledge of the pathophysiology, epidemiology, and natural history of diseases to the diagnosis and management of common patient conditions in Pulmonary Medicine. Learn how to interpret pulmonary function test and the indications for bronchoscopy.
5. Demonstrate effective and professional interpersonal and communication skills in interactions with patients, including an awareness of psychosocial factors related to patients' problems.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Students will participate on the pulmonary consult service and evaluate consult patients under attending/fellow supervision.
2. Presentation and discussion of patients with the consult attending.
3. Selected reading material on topics pertinent to the pulmonary medicine.
4. Attendance at Pulmonary Clinical Conferences at noon on Mondays and Fridays.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Chronic hypoxic respiratory failure
2. Chronic Obstructive Lung Disease
3. Acute hypoxic/hypercarbic respiratory failure
4. Pneumothorax
5. Solitary Pulmonary Nodule
6. Sarcoidosis
7. Interstitial Lung Disease

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 868****Rheumatology & Immunology MC**Course Director(s):

Faye Hant, DO, MSCR

Diane Kamen, MD, MSCR

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

<b>Blk 1</b>	<input type="checkbox"/> 2	<input checked="" type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/> 2	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/> 2	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
<b>Blk 1A</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 2 - July 13	<b>Blk 3A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Aug 27 - Sept 7	<b>Blk 5B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Nov 5 - Nov 16	<b>Blk 8</b>	<input type="checkbox"/> 2	<input checked="" type="checkbox"/>	Jan 28 - Feb 22	<b>Blk 10A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Mar 25 - Apr 5
<b>Blk 1B</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 16 - July 27	<b>Blk 3B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Sept 10 - Sept 21	<b>Blk 6</b>	<input type="checkbox"/> 2	<input checked="" type="checkbox"/>	Nov 19 - Dec 14	<b>Blk 8A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 28 - Feb 8	<b>Blk 10B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Apr 8 - Apr 19
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<b>Blk 2A</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 30 - Aug 10	<b>Blk 4A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Sept 24 - Oct 5	<b>Blk 6B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Dec 3 - Dec 14	<b>Blk 9</b>	<input type="checkbox"/> 2	<input checked="" type="checkbox"/>	Feb 25 - Mar 22	<b>Blk 11A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Apr 22 - May 3
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				<b>Blk 5</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/>	Oct 22 - Nov 16	<b>Blk 7A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 2 - Jan 11	<b>Blk 9B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Mar 11 - Mar 22				

**COMMENTS:**

Students will rotate over at the VA Clinic weekly so must be current with VA logins and codes before starting this rotation.

**COURSE DESCRIPTION:**

This rotation will emphasize the evaluation and management of patients with common musculoskeletal and autoimmune conditions. The majority of the time will be spent in the ambulatory Rheumatology clinics. Limited exposure to complicated inpatient consultations is available. Students will have intense one-on-one contact with multiple Rheumatology faculty members in learning how to evaluate patients.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Evaluation of patients with joint pain and inflammatory arthritis.
2. Musculoskeletal examination techniques and exposure to procedures such as arthrocentesis and injections.
3. Use of a diagnostic evaluation of patients with suspected autoimmune disease.
4. Learn commonly utilized therapies in the treatment of the patient with a broad range of musculoskeletal diseases

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. The majority of time is spent in ambulatory clinics.
2. Students will have intense one-on-one contact with faculty in the evaluation of ambulatory patients.
3. Instruction on indications and methodology for joint aspiration and injection, including hands on when applicable.
4. Conferences – 2 hours/week
5. Patient Contact – 25 hours/week

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

1. Rheumatoid arthritis
2. Systemic Lupus Erythematosus
3. Vasculitis
4. Scleroderma
5. Gout

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service. May include communication with other specialists or health care providers participating in the care of rheumatologic patients (Allows evaluation of Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills).
2. Documentation of patient encounters is expected and the Electronic Medical Record will be utilized and reviewed with the student by the attending physician (Allows evaluation of Practice-Based and Life-Long Learning, System-Based Learning).
3. Preparation and presentation of a 10-15 minute talk to the Division on an aspect of rheumatology encountered in their clinical experience. Feedback and evaluation will be given by the teaching attending and teaching fellow that month (Allows evaluation of Medical Knowledge and Interpersonal/Communication Skills).
4. Participation in the weekly scheduled conferences and teaching sessions (Allows evaluation Medical Knowledge, Professionalism, Interpersonal/Communication Skills).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 871****Heart Failure / Transplant**Course Director(s):

Adrian Van Bakel, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

<b>Blk 1</b>	<input type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input checked="" type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input checked="" type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/>	Mar 25 - Apr 19
<b>Blk 1A</b>	<input checked="" type="checkbox"/>	July 2 - July 13	<b>Blk 3A</b>	<input checked="" type="checkbox"/>	Aug 27 - Sept 7	<b>Blk 5B</b>	<input checked="" type="checkbox"/>	Nov 5 - Nov 16	<b>Blk 8</b>	<input type="checkbox"/>	Jan 28 - Feb 22	<b>Blk 10A</b>	<input checked="" type="checkbox"/>	Mar 25 - Apr 5
<b>Blk 1B</b>	<input checked="" type="checkbox"/>	July 16 - July 27	<b>Blk 3B</b>	<input checked="" type="checkbox"/>	Sept 10 - Sept 21	<b>Blk 6</b>	<input type="checkbox"/>	Nov 19 - Dec 14	<b>Blk 8A</b>	<input checked="" type="checkbox"/>	Jan 28 - Feb 8	<b>Blk 10B</b>	<input checked="" type="checkbox"/>	Apr 8 - Apr 19
<b>Blk 2</b>	<input type="checkbox"/>	July 30 - Aug 24	<b>Blk 4</b>	<input type="checkbox"/>	Sept 24 - Oct 19	<b>Blk 6A</b>	<input checked="" type="checkbox"/>	Nov 19 - Nov 30	<b>Blk 8B</b>	<input checked="" type="checkbox"/>	Feb 11 - Feb 22	<b>Blk 11</b>	<input type="checkbox"/>	Apr 22 - May 17
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<b>Blk 2B</b>	<input checked="" type="checkbox"/>	Aug 13 - Aug 24	<b>Blk 4B</b>	<input checked="" type="checkbox"/>	Oct 8 - Oct 19	<b>Blk 7</b>	<input type="checkbox"/>	Jan 2 - Jan 25	<b>Blk 9A</b>	<input checked="" type="checkbox"/>	Feb 25 - Mar 8	<b>Blk 11B</b>	<input checked="" type="checkbox"/>	May 6 - May 17
			<b>Blk 5</b>	<input type="checkbox"/>	Oct 22 - Nov 16	<b>Blk 7A</b>	<input checked="" type="checkbox"/>	Jan 2 - Jan 11	<b>Blk 9B</b>	<input checked="" type="checkbox"/>	Mar 11 - Mar 22			

**COMMENTS:**

This course can be taken for 4 weeks for full credit as long as there is no one else scheduled in the other block. Please contact Mary Ann Snell at snellma@musc.edu if you are interested to work out the details.

**COURSE DESCRIPTION:**

The CHF/Transplant Selective is an inpatient rotation designed to give students an in-depth experience treating complex patients with a primary diagnosis of congestive heart failure. Students will encounter patients along the entire continuum of heart failure management ranging from new onset, acutely decompensated heart failure through severe chronic heart failure. In addition to medical management, the student will be exposed to the intricacies of selecting treatment options for advanced heart failure therapy including heart transplantation and left ventricular assist device placement.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

1. Understand pathophysiology, recognize clinical features of congestive heart failure.
2. Pharmacological and device therapy of congestive heart failure.
3. Arrhythmia recognition and therapy in congestive heart failure
4. Evaluation for heart transplant including post-transplant care.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. Students will evaluate inpatients under Attending and Fellow supervision. They will take and record a detailed history and physical of new patients. Cardiovascular examination skills will be imparted to the students at the bedside.
2. Students will be taught cardiovascular hemodynamics and the use of pulmonary artery catheters, right heart catheterizations and how to titrate medications.
3. Students will follow CHF patients in the coronary intensive care unit (CCU) patients who are on mechanical left ventricular assist devices including: percutaneous temporary devices and the heart mate 2 long term device. They will learn about patient selection, device selection and patient management with respect to cardiac assist devices.
4. Students will be exposed to cardiac transplant medicine and learn about: patient selection, postoperative and long term transplant care. Additionally they will learn about the end organ complications, malignancies and infectious disease complications of heart transplant.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

Exposure to the full spectrum of diagnosis and treatment of congestive heart failure.

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

MED 891

Medicine Hospitalist Consults MC

Course Director(s):

Deborah DeWaay, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

Blk 1	<input checked="" type="checkbox"/>	July 2 - July 27	Blk 3	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	Blk 5A	<input type="checkbox"/>	Oct 22 - Nov 2	Blk 7B	<input type="checkbox"/>	Jan 14 - Jan 25	Blk 10	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
Blk 1A	<input type="checkbox"/>	July 2 - July 13	Blk 3A	<input type="checkbox"/>	Aug 27 - Sept 7	Blk 5B	<input type="checkbox"/>	Nov 5 - Nov 16	Blk 8	<input checked="" type="checkbox"/>	Jan 28 - Feb 22	Blk 10A	<input type="checkbox"/>	Mar 25 - Apr 5
Blk 1B	<input type="checkbox"/>	July 16 - July 27	Blk 3B	<input type="checkbox"/>	Sept 10 - Sept 21	Blk 6	<input checked="" type="checkbox"/>	Nov 19 - Dec 14	Blk 8A	<input type="checkbox"/>	Jan 28 - Feb 8	Blk 10B	<input type="checkbox"/>	Apr 8 - Apr 19
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Blk 2A	<input type="checkbox"/>	July 30 - Aug 10	Blk 4A	<input type="checkbox"/>	Sept 24 - Oct 5	Blk 6B	<input type="checkbox"/>	Dec 3 - Dec 14	Blk 9	<input checked="" type="checkbox"/>	Feb 25 - Mar 22	Blk 11A	<input type="checkbox"/>	Apr 22 - May 3
Blk 2B	<input type="checkbox"/>	Aug 13 - Aug 24	Blk 4B	<input type="checkbox"/>	Oct 8 - Oct 19	Blk 7	<input checked="" type="checkbox"/>	Jan 2 - Jan 25	Blk 9A	<input type="checkbox"/>	Feb 25 - Mar 8	Blk 11B	<input type="checkbox"/>	May 6 - May 17
			Blk 5	<input checked="" type="checkbox"/>	Oct 22 - Nov 16	Blk 7A	<input type="checkbox"/>	Jan 2 - Jan 11	Blk 9B	<input type="checkbox"/>	Mar 11 - Mar 22			

COMMENTS:COURSE DESCRIPTION:

This course is designed to expose 4th year medical students to the common general medicine diseases, particularly post-operative complications that are seen in the inpatient setting on a consultative basis.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

1. Learn risk assessment and risk reduction strategies in patients with medical problems undergoing surgery.
2. Demonstrate fundamentals of perioperative cardiovascular, pulmonary, and diabetes management.
3. Demonstrate basics of perioperative venous thromboembolism prophylaxis, anticoagulation management, and antibiotic prophylaxis management.
4. Understand the diagnosis and treatment of basic nosocomial infections such as pneumonia and urinary tract infections.

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

1. On this rotation, the student will round with the general medicine/hospitalist consult team at MUSC.
2. The students are expected to independently evaluate patients, follow and write daily notes on their patients, and present findings and plans to the hospitalist attending.
3. The consult team at MUSC consists of an attending hospitalist and a medical resident.
4. The students are encouraged to come to the department of medicine's conferences such as morning report, noon conference and grand rounds.

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Sinus tachycardia
2. Pneumonia
3. Urinary tract infections
4. Pulmonary embolus
5. Anemia
6. Hypertension
7. Diabetes mellitus

EVALUATION / FEEDBACK METHODS:

1. Direct observation of patient care skills by the attending physician, fellows, and residents on service (medical knowledge, patient care, professionalism, interpersonal/communication skills).
2. The students will give their attending a mid-point evaluation form half way through the selective in order to be assessed on their performance (all 5 competencies).
3. The attending physicians and fellows will provide the students with a verbal evaluation at the end of the rotation as well as a formal electronic evaluation (all 5 competencies).

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**MED 892****Novel Approaches Primary Care**Course Director(s):

Joel Vaughan, MD

Course Coordinator(s):

Mary Ann Snell

792-7282

snellma@musc.edu

Student Limit

<b>Blk 1</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	July 2 - July 27	<b>Blk 3</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	<b>Blk 5A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	<b>Blk 7B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	<b>Blk 10</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
<b>Blk 1A</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 2 - July 13	<b>Blk 3A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Aug 27 - Sept 7	<b>Blk 5B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Nov 5 - Nov 16	<b>Blk 8</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Jan 28 - Feb 22	<b>Blk 10A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Mar 25 - Apr 5
<b>Blk 1B</b>	<input type="checkbox"/>	<input type="checkbox"/>	July 16 - July 27	<b>Blk 3B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Sept 10 - Sept 21	<b>Blk 6</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Nov 19 - Dec 14	<b>Blk 8A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 28 - Feb 8	<b>Blk 10B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Apr 8 - Apr 19
<b>Blk 2</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	July 30 - Aug 24	<b>Blk 4</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sept 24 - Oct 19	<b>Blk 6A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Nov 19 - Nov 30	<b>Blk 8B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Feb 11 - Feb 22	<b>Blk 11</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Apr 22 - May 17
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<b>Blk 2B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Aug 13 - Aug 24	<b>Blk 4B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Oct 8 - Oct 19	<b>Blk 7</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Jan 2 - Jan 25	<b>Blk 9A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Feb 25 - Mar 8	<b>Blk 11B</b>	<input type="checkbox"/>	<input type="checkbox"/>	May 6 - May 17
				<b>Blk 5</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Oct 22 - Nov 16	<b>Blk 7A</b>	<input type="checkbox"/>	<input type="checkbox"/>	Jan 2 - Jan 11	<b>Blk 9B</b>	<input type="checkbox"/>	<input type="checkbox"/>	Mar 11 - Mar 22				

**COMMENTS:****COURSE DESCRIPTION:**

Novel approaches to primary care will demonstrate to students the delivery of primary care to both indigent, uninsured patients and insured patients in a self-insured corporate health network. Attention will be given to the cost of care relative to its efficacy as well as the financial forces at work in the American health care system. Students will have the opportunity to develop proficiency in the management of primary care health problems in this setting.

**LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**

- Care for the common medical problems of indigent populations with an all-generic formulary and care for all patients in a cost-effective manner.
- Demonstrate a firm grasp on the diagnosis and management of common primary care medical problems such as diabetes, hypertension, and mental health issues.
- Assess the current state of the delivery of safe, cost-effective, efficient, patient-centered and equitable health care in the United States.
- Identify and support policy and service delivery changes that could improve access to, quality of, and effectiveness of healthcare in the United States.

**INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**

*(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)*

- Observation and participation in patient care at the Harvest Free Medical Center, a faith-based facility in North Charleston that delivers primary care to the indigent.
- Observation and participation in patient care at the Detyens Medical Center, a facility owned by Detyens Shipyards, Inc., a center that cares for its employees and their families at no cost to the employees.
- Participation in small group didactic sessions covering skills such as EKG reading and the diagnosis and management of common primary care medical problems.
- Participation in small group discussions about patient cases, focusing on medical decision-making taking into account both effectiveness and cost.
- Reading materials on the most widely accepted standards of care for common primary care patient problems.

**PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**

- Diabetes Mellitus
- Hypertension
- Hyperlipidemia
- Asthma
- Wellness checks

**EVALUATION / FEEDBACK METHODS:**

- Verbal feedback after direct observation of patient care skills (Patient Care, Professionalism, Interpersonal/Communication Skills).
- Clinical evaluation form at the rotation's mid-point (Patient Care, Professionalism, Interpersonal/Communication Skills, System-Based Learning).
- Verbal evaluation at the rotation's conclusion (Medical Knowledge, Patient Care, Professionalism, Interpersonal/Communication Skills).
- Written evaluation via E-Value (all competencies).

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency: