

**LABMED 853****Laboratory Medicine**Course Director(s):

Frederick Nolte, PhD

Course Coordinator(s):

Molli Diaz

792-0217

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

This comprehensive elective exposes students to the all aspects of laboratory medicine including chemistry, microbiology, hematology, immunology, transfusion medicine and molecular diagnostics. The students will participate in laboratory rotations, laboratory rounds, conferences and small group sessions with attending faculty, residents, fellows and clinical laboratory staff. The overall objectives of the rotation are for the student to gain an appreciation of the role of laboratory measurements in the diagnosis and management of patients and to understand the preanalytical, analytical and post-analytic factors that influence laboratory results.

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

1. Identify the important preanalytical, analytical and post-analytical variable that influences laboratory results.
2. Understand the basic principles and test methods used in the clinical chemistry, microbiology, transfusion medicine, hematology and immunology laboratories.
3. Understand the relationship of clinical laboratory results to diagnosis and patient 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. Lecture
2. Lab
3. Conference
4. Seminar
5. Small Group
6. Independent study

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

N/A

**EVALUATION / FEEDBACK METHODS:**

1. Written Final Exam (Medical Knowledge)
2. Direct Observation (Professionalism, Systems-Based Practice)
3. Oral presentation (Interpersonal/Communication Skills)

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

**PATH 856**

**Forensic and Medical Autopsy Pathology**

Course Director(s):

Nicholas Batalis, MD

Erin Presnell, MD

Course Coordinator(s):

Sandy Nelson

792-4459

nelsons@musc.edu

Student Limit

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**COMMENTS:**

**COURSE DESCRIPTION:**

This course offers insight into forensic pathology and medicolegal death investigation as well as the workup and certification of in-hospital deaths. The student will be involved in the performance of autopsies, including the performance of external examinations, disposition of fluid/tissue samples for ancillary studies, and basic dissection of the internal organs. This course offers an excellent opportunity for review of normal anatomy and exposes the student to common pathologies and traumas.

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

1. Identify factors that qualify a death for a forensic autopsy.
2. Identify the benefits and limitations of medical, or hospital, autopsies.
3. Explain the complete details of how an autopsy is performed.
4. Perform uncomplicated autopsy organ dissection.
5. Properly complete the cause and manner of death section on a death certificate.

**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. Attendance and participation in weekly autopsy conferences
2. Rotation specific didactics
3. Pre-case and post-case discussions with attending pathologist, residents, and /or forensic fellow.
4. Active participation if autopsy casework.
5. Student presentation of a 15 minute autopsy/forensic topic at the end of the rotation.

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

1. Natural diseases including hypertension, atherosclerosis, pneumonia, and/or cancer
2. Various forms of trauma including motor vehicle accidents, burns, gunshot wounds, and/or sharp force injuries
3. Illicit and prescription drug overdoses

**EVALUATION / FEEDBACK METHODS:**

1. Students will be evaluated by faculty who will fill out a questionnaire in the E\*value system which includes questions addressing all of the core competencies.
2. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal evaluation/feedback about daily service work (medical knowledge, patient care, and system-based learning).
3. Attending physicians, forensic fellow, and pathology residents will provide on-site verbal feedback of the 15 minute student presentation at the end of the rotation (medical knowledge, professionalism, and communication).

**CALL:**

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

One weekend day during rotation

<b>PATH 860</b>	<b>Cytopathology</b>	<b>Course Director(s):</b>		<b>Course Coordinator(s):</b>	
		Jack Yang, MD		Trudie Shingledecker	
<b>Student Limit</b>				792-1086	
				shinglet@musc.edu	

  

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**COMMENTS:**

Meet with Dr. Yang in CH303F at 9:00 am (day one of rotation)

Reference text books: "The Art & Science of Cytopathology." Richard M. DeMay and "The Bethesda System for Reporting Cervical Cytology." Diane Solomon, Ritu Nayar

**COURSE DESCRIPTION:**

This course will introduce students to Cytopathology. Students will learn basic preparatory techniques and be involved in evaluation of gynecologic and non-gynecologic preparations. Students will have the opportunity to participate in the entire cytologic diagnostic process, including taking patients' medical history, examination of targeted lesions (physically and radiologically), specimen preparation, and final cytologic diagnosis. The course includes didactic lectures and participation of daily cytology sign-out sessions. Students will also have the opportunity to attend cytology teleconferences provided by the American Society of Clinical Pathology and pathology resident seminars that are related to Cytopathology.

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

1. Develop medical vocabulary and use written language effectively. Learn the skills in communication with clinicians and patients.
2. Understand pathologic basis of diseases: Correlate clinical symptoms with underlying pathophysiologic mechanisms.
3. Recognize personal limits in knowledge and experience. No specialty in medicine can stand alone and multidiscipline approach is required for patient 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. Participation in Cytopathology sign-out (pap smears and fluid analysis) and performance of fine needle aspiration specimens
2. Attend histo/cyto correlation conference
3. Attend general pathology lectures
4. Identify topic of interest and give 10 minute cytopathology-related oral presentation

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

N/A

**EVALUATION / FEEDBACK METHODS:**

1. Direct observation by faculty and residents during direct patient care and review of other clinical and didactic activities.
2. Direct observation and Question/Answer sessions
3. Direct observation by residents and attending of student day-to-day activities of the team
4. Present a 10 min. presentation on a topic related to Cytopathology.

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PATH 862

Surgical Pathology

Course Director(s):

Mary Richardson, MD

Course Coordinator(s):

Trudie Shingledecker

792-1086

shinglet@musc.edu

Student  
Limit

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

This course will introduce students to surgical pathology. Students will be exposed to gross examination of surgical specimens, frozen section examination and microscopic pathology. The course will be designed an emphasis in surgical pathology on topics that would be of interest to the student and their ultimate career interests. The student will be expected to choose an interesting clinical case that occurs during their four week rotation which will be presented as a short (5 min) power point presentation at the last Friday morning resident's conference or in another conference time (arranged and approved by the course director) prior to leaving the elective. The students will also be expected to attend the morning lectures and conferences that occur Monday-Friday at 8 a.m.

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

1. Learn the scope of pathology and what surgical pathologists do
2. Learn the indications for and the methodology of intraoperative consultation (frozen section)
3. Learn the dissection techniques for common surgical specimens
4. Learn the gross and microscopic features of common neoplasms
5. Present a patient case selected during the four week rotation with an emphasis on pathology

**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 - 5
2. Rounds/Discussions - 20
3. Lab

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

N/A

**EVALUATION / FEEDBACK METHODS:**

1. Evaluation of medical knowledge by attending physician on surgical pathology sign-out
2. Observation of interpersonal communicative skills and professionalism
3. Quality of oral presentation by selective director

**CALL:**

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PATH 865

Dermatopathology

Course Director(s):

John Metcalf, MD

Course Coordinator(s):

Trudie Shingledecker

792-1086

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Student  
Limit

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COMMENTS:COURSE DESCRIPTION:

The student will participate in the daily readouts of skin pathology specimens and in self-study of teaching sets. The student will also participate in the daily teaching conferences in the Department of Dermatology including the Clinicopathologic Conference and the Dermatopathology Conference.

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

1. Learn the terminology of Dermatopathology
2. Learn the basic pathologic changes that occur in the skin
3. Learn how to analyze skin specimens
4. Learn the pathologic features of common inflammatory diseases and neoplasms of the skin
5. Integrate clinical and pathological features of skin 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. Lectures - 5
2. Rounds/Discussions – 1 1/2
3. Lab - 30

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

N/A

EVALUATION / FEEDBACK METHODS:

1. Evaluation by attending physician at dermatopathology sign-out
2. Medical knowledge, interpersonal communication skills, Professionalism

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

PATH 871

Hematopathology &amp; Medicine

Course Director(s):

John Lazarchick, MD

Course Coordinator(s):

Molli Diaz

792-0217

chmielom@musc.edu

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Blk 2	<input checked="" type="checkbox"/>	July 30 - Aug 24	Blk 4	<input checked="" type="checkbox"/>	Sept 24 - Oct 19	Blk 6A	<input type="checkbox"/>	Nov 19 - Nov 30	Blk 8B	<input type="checkbox"/>	Feb 11 - Feb 22	Blk 11	<input checked="" type="checkbox"/>	Apr 22 - May 17
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 provide the student an opportunity to participate in the laboratory evaluation and diagnosis of malignant and nonmalignant hematologic disorders. The student will be involved in the morphologic, histochemical and immunohistochemical, immunophenotypic, cytogenetic and molecular analyses of peripheral blood smear, bone marrow aspirate and biopsies and lymph node biopsies. Correlation of these data with the clinical history and physical findings will be emphasized.

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

1. Learn to use a multidisciplinary, integrated approach to the diagnosis of hematologic disorders utilizing morphology, flow cytometry, classical cytogenetics and molecular analysis.
2. Be able to diagnose acute and chronic leukemias and determine cell lineage, to distinguish myeloproliferative and myelodysplastic disorders from reactive processes and be familiar with the protean manifestations of plasma cell dyscrasias.
3. Be able to distinguish myeloproliferative/myelodysplastic disorders from reactive processes.

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 - 2
2. Rounds/Discussions - 15
3. Lab - 5

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

N/A

EVALUATION / FEEDBACK METHODS:

1. Students will be quizzed regarding concepts and principles in response to routine questions about pathologic diagnosis of case slide being reviewed. (Medical Knowledge)
2. Students will be evaluated on their ability to document patient information through synthesis of clinical data and additional laboratory tests. (Patient Care)
3. Students will be evaluated on their ability to present clear, concise and well organized case presentations. (Interpersonal/Communication Skills)
4. Students will be evaluated for their skill, initiative and capability as a member of the medical team on service in their diligence in completing assignments in a reliable and conscientious manner. (Professionalism)
5. Students will be evaluated in their ability to investigate and evaluate their diagnostic and consultative practice, appraise and assimilate scientific evidence and improve their patient care practices. (Practice Based Learning and Improvement)

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency: