

**HM 610**  
**Pathology**  
Clerkship Selective/Elective Rotation Syllabus

**Physiology Department-Division of Pathology**

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***MSUCOM constantly strives to improve and advance its curriculum through innovation while assuring compliance with current AOA accreditation standards. While major changes are generally instituted at the beginning of each academic year, minor changes may be implemented semester to semester.***

***Please be mindful of the need to read your syllabi before beginning your rotations.***

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# **Introduction and Overview to HM 610 Pathology**

This clerkship provides in-depth exposure to in hospital pathology as a specialty and the role of pathologist in the practice of medicine including areas of study such as histopathology, microscopy, autopsy, hematology, and microbiology. Anatomic and clinical pathology with emphasis on clinical-pathological correlation are emphasized during this rotation.

Format of Rotation– Students will work daily in the assigned pathology office of the hospital with pathologists and staff learning the fundamentals as applied to inpatient pathology. Students are expected to be present during every scheduled day in the clinical setting. Unless otherwise specified by in-house faculty the student is expected to be present from 7am-5pm although night call may be included in exposing students to the variety of pathologist roles. Students are expected to complete 2 hours of reading per night based on the day's cases and schedule for the following day.

## **Goals and Objectives**

**GOALS:** Develop an increased understanding of the science and practice of pathology in the hospital setting by the end of the rotation.

### **OBJECTIVES:**

1. Complete a review of the basic concepts of pathology and histology through a study of disease processes in current and archived patient material.
2. Understand the basic principles and patterns of histopathology used in evaluation of patient specimens in surgical pathology.
3. Demonstrate basic microscopy skills in the areas of cytology, hematology and urinalysis.
4. Be able to assist with an autopsy
5. Develop an appreciation for the interface between laboratory science and clinical medicine.
6. Obtain skills in the interpretation of various clinical laboratory studies for chemistry, immunopathology and hematology/blood bank.
7. Participate with pathologists during performance of frozen section.

### **COLLEGE PROGRAM OBJECTIVES**

In addition to the above course-specific goals and learning objectives, this clerkship rotation also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website.

## References

No required or recommended textbooks. Readings will be assigned based on cases observed

## Student Responsibilities

During the 2-4 weeks of the rotation, the student is required to meet clinical and academic responsibilities:

- The student **will** meet the following **clinical responsibilities** during this rotation:
  - Arrive on time for any patient-related activity (or alert site coordinator to any delay)
  - Attend all activities as discussed with pathologists, pathology residents, pathology assistants, medical technologists, or site coordinator(s)
  - Dress as expected in any out-patient setting (Note: scrubs may be allowed depending upon site norms or site activities, but err on the side of professional attire initially)
  - Students are expected to function collaboratively on health care teams that include health professionals from other disciplines in the provision of quality, patient-centered care.
  
- The student **will** meet the following **academic responsibilities** during this rotation:
  - Correlate clinical and pathologic findings in patient cases, in order to best understand the clinical application and biologic basis of pathology
  - Students are expected to identify, access, interpret and apply medical evidence contained in the scientific literature related to patients health problems.
  - Students are expected to: assess their personal learning needs specific to this clinical rotation, engage in deliberate, independent learning activities to address their gaps in knowledge, skills or attitudes; and solicit feedback and use it on a daily basis to continuously improve their clinical practice.
  - See below for specific activities

Pass/Fail. Preceptor(s) will be asked to submit a standard Elective Clinical Performance Evaluation at the conclusion of the clerkship. Faculty are encouraged to provide ongoing feedback throughout the elective rotations.

# Pathology HM 610 Rotation Academic Requirements

<b>Requirements</b>	<b>Submission Method</b>	<b>Due Date</b>	<b>Grade Percentage</b>
Assist/view frozen section evaluation (as applicable and/or as institutionally performed)	Rotation checklist Documentation	End of rotation	
Assist/view autopsy (as applicable and/or as institutionally performed)	Rotation checklist Documentation	End of rotation	n/a
Surgical pathology sign-out participation; general or any subspecialty (as applicable and/or as institutionally performed)	Rotation checklist Documentation	End of rotation	
Practice/demonstrate microscopic evaluation in an anatomic or clinical pathology activity; ex., hematology, cytology, surgical pathology, urinalysis, or microbiology (as applicable and/or as institutionally performed)	Rotation checklist Documentation	End of rotation	
Clinical pathology sign-out participation; ex., hematology, blood bank, immunopathology, molecular pathology (as applicable and/or as institutionally performed)	Rotation checklist Documentation	End of rotation	
Patient presentation topic, as derived from a case handled in the first two weeks of the rotation (as applicable and/or as institutionally performed)	Rotation checklist Documentation	End of rotation	

# Pathology HM 610 Rotation Clinical Requirements

Requirements	Submission Method	Due Date
Attending Evaluation of Rotation *the determination of a satisfactory attending evaluation is governed by the College's Policy for Retention, Promotion, and Graduation*	To be appropriately submitted per the instructions at the end of each evaluation form	Final Day of Rotation
Student Evaluation of Rotation	"Evaluate" Link in Kobiljak Schedule (this link will activate on the final Monday of the rotation)	Final Day of Rotation

## MSU College of Osteopathic Medicine Standard Policies

The following are standard MSUCOM policies across all Clerkship rotations.

### CLERKSHIP ATTENDANCE POLICY

**Clerkship activities are mandatory and timely attendance is expected at all educational events.**

In the event a student must be absent from clerkship activities, he/she must, firstly, have prior approval from the Graduate Medical Education office (DME/DIO, Clerkship Director, and/or Student Clerkship Coordinator per the rotation sites process/policy). The clinical preceptor must also approve the absence, and determine an acceptable make-up plan which may include, but is not limited to: additional time on rotation, additional presentation(s), or written assignment(s). In the event of an emergency, the student must contact the Graduate Medical Education office and clinical preceptor as soon as the situation allows. Any exception to this attendance policy for any given rotation will be noted in the course syllabus.

Abuse of this policy, as determined by the GME office or a clinical preceptor, may be documented in a student evaluation(s) and/or reported to the Associate Dean of Student Services at MSUCOM via the Student Incident Report Form: <http://com.msu.edu/Students/Registrar/Policies.htm> or via phone call to the Associate Dean of Student Services (517-353-8799).

<b>ROTATION SPECIFIC EXCEPTIONS TO THE ABOVE ATTENDANCE POLICY: NONE</b>
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## **Policy for Medical Student Supervision**

### **Supervisors of the Medical Students in the Clinical Setting**

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The role of the student is to participate in patient care in ways that are appropriate for the student's level of training and experience and to the clinical situation. The student's clinical activities will be under the supervision of licensed physicians. This supervising physician may delegate the supervision of the medical student to a resident, fellow, or other qualified healthcare provider, however, the supervising physician retains full responsibility for the supervision of the medical students assigned to the clinical rotation and must ensure his/her designee(s) are prepared for their roles for supervision of medical students.

The physician supervisor and his/her designee(s) must be members in good standing in their facilities and must have a license appropriate to his/her specialty of practice and be supervising the medical student within that scope of practice as delineated by the credentialing body of the facility.

### **Level of Supervision/Responsibilities**

Clinical supervision is designed to foster progressive responsibility as a student progresses through the curriculum, with the supervising physicians providing the medical student the opportunity to demonstrate progressive involvement in patient care. MSUCOM students will be expected to follow clinical policies of the facility regarding medical records and clinical care. Medical student participation in patient history/physical exam, critical data analysis, management, and procedures will include factors, but not limited to:

- The students demonstrated ability
- The students level of education and experience
- The learning objectives of the clinical experience

First and second year medical students will be directly supervised at all times (supervising physician or designee present or immediately available).

Third and fourth year medical students will be supervised at a level appropriate to the clinical situation and student's level of experience. For some tasks, indirect supervision may be appropriate for some students. Direct supervision would be appropriate for advanced procedures.

Supervising physicians will provide medical students with timely and specific feedback on performance. The supervising physician will complete a mid-rotation evaluative discussion with the medical student. Supervising physicians will complete a summative evaluation and are encouraged to contact the course/clerkship director with any gaps in student performance.

Medical students with any concern regarding clinical, administrative, educational or safety issues during his/her rotation will be encouraged to contact the supervising physician or clerkship/course director.

## **STATEMENT OF PROFESSIONALISM**

Principles of professionalism are not rules that specify behaviors, but guidelines that provide direction in identifying appropriate conduct. These principles include the safety and welfare of patients, competence in knowledge and skills, responsibility for consequences of actions, professional communication, confidentiality, and lifelong learning for maintenance of professional skills and judgments.

Professionalism and professional ethics are terms that signify certain scholastic, interpersonal and behavioral expectations. Among the characteristics included in this context are the knowledge, competence, demeanor, attitude, appearance, mannerisms, integrity and morals displayed by the student to faculty, peers, patients and colleagues in other health care professions. Students are expected to conduct themselves at all times in a professional manner and to exhibit characteristics of a professional student.

## **STUDENTS RIGHTS AND RESPONSIBILITIES**

Each individual student is responsible for their behavior and is expected to maintain standards of academic honesty. Students share the responsibility with faculty for creating an environment that supports academic honesty and principles of professionalism. Proper relationship between faculty and student are fundamental to the college's function and this should be built on mutual respect and understanding together with shared dedication to the education process. It is a fundamental belief that each student is worthy of trust and that each student has the right to live in an academic environment that is free of injustice caused by dishonesty. While students have an obligation to assist their fellow students in meeting the common goals of their education, students have an equal obligation to maintain the highest standards of personal integrity.

## **FACULTY RESPONSIBILITIES**

It is the responsibility of the college faculty to specify the limits of authorized aid (including but not limited to exams, study aids, internet resources and materials from senior students) in their syllabi, and it is the responsibility of students to honor and adhere to those limits. Course instructors shall inform students at the beginning of the semester of any special criteria of academic honesty pertinent to the class or course.

It is the responsibility of the clinical faculty to provide students with ongoing feedback during rotation upon request. Clinical faculty are generally recommended (though not required) to limit student assigned duty hours from 40 to 60 hours weekly (and not exceeding 60 hours). Both faculty and students are to be treated fairly and professionally in order to maintain a proper working relationship between trainer and trainee.



## **COURSE GRADES**

- **P-Pass** – means that credit is granted and that the student achieved a level of performance judged to be satisfactory according to didactic and clinical performance by the department.
- **N-No Grade** – means that no credit is granted and that the student did not achieve a level of performance judged to be satisfactory according to didactic and clinical performance by the department.
- **ET-Extended Grade** – means that a final grade (“Pass” or “No Grade”) cannot be determined due to one or more missing course requirements. Once all course requirements have been completed, received, and processed, the ET grade will be changed to a final grade. An “ET” will NOT remain on a student’s transcript.

## **N-GRADE POLICY**

- Remediation is not offered for Clerkship courses. Any student who receives an N grade in the Clerkship Program will be required to appear before the COSE Clerkship Performance Subcommittee (COSE).

## **ROTATION EVALUATIONS**

### **Attending/ Faculty/ Resident Evaluation of Student**

Students are responsible for assuring that his/her clinical supervisor receives the appropriate evaluation form. Forms can be accessed via the “Attending Evaluation” link in the student’s Kobiljak online Clerkship schedule.

Students should assertively seek feedback on his/her performance throughout the course of the clinical rotation. Students should also sit down and discuss the formal evaluation with the clinical supervisor.

Students should keep a copy of the evaluation and leave the original with the Medical Education Office at the clinical training site where that office will review, sign, and forward the completed form to the COM Office of the Registrar. It is important to know that evaluations will not be accepted by the COM Office of the Registrar if submitted by the student. Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” resulting in an “N” grade and review by the Committee on Student Evaluation (COSE) and/or the College Hearing Committee.

Grades are held until all rotation requirements, including evaluation forms, are received. Be sure you are using the correct form.

### **Student Evaluation of Rotation**

Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the evaluation system at:

[http://hit-filemakerwb.hc.msu.edu/Clerkship/login\\_student.html](http://hit-filemakerwb.hc.msu.edu/Clerkship/login_student.html)

## **EXPOSURE INCIDENTS PROTOCOL**

A form has been developed by the University to report exposure incidents. These forms will be on file in your DME's office. You can also access the form at [www.com.msu.edu/AP/clerkship\\_program/clerkship\\_documents/exposure.pdf](http://www.com.msu.edu/AP/clerkship_program/clerkship_documents/exposure.pdf). Please make yourself familiar with the procedure and the form.