RAD 609
Radiology Clerkship

CLERKSHIP ELECTIVE ROTATION SYLLABUS

DEPARTMENT OF RADIOLOGY
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clarkem@msu.edu

At MSUCOM, we are constantly working to improve our curriculum and to meet new AOA accreditation guidelines. We need to meet the challenges of modern medicine that force us to innovate. While changes will generally be instituted at the beginning of the school year, changes may also 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

ELECTIVE COURSE SCHEDULING

Preapproval
- This course does not require preapproval from the IOR. The student should follow the below directions for elective course confirmation and enrollment.

Required Prerequisites
- This course does not require any prerequisite courses.

Course Confirmation and Enrollment
- The student must be an active student at Michigan State University College of Osteopathic Medicine (MSUCOM).
- Student must complete five core rotations prior to any elective rotation.
- The student must receive MSUCOM confirmation and enrollment prior to beginning any elective rotation.
  - Once the student receives rotation acceptance from the host site, students must provide the elective application and host site approval to COM.Clerkship@msu.edu for MSUCOM confirmation and scheduling.
  - MSUCOM confirmation and enrollment is complete when the rotation is visible on the student’s schedule.
  - MSUCOM confirmation must occur at least 30 days in advance of the rotation.

ROTATION FORMAT
This course is designed to provide the student with an opportunity to actively engage in patient-based, learning experiences under the guidance of a faculty member (preceptor) in collaboration, as appropriate, with residents and/or fellows.

Rotations are typically two weeks, 3 credit hours or four weeks, 6 credit hours in duration. Timeframes for each rotation are decided at least 30 days prior to the beginning of the rotation.

The overall performance of course participants will be evaluated through customary assessment instruments normally employed by the department for core rotations, at the discretion of the instructor of record.

GOALS AND OBJECTIVES
Students must have the opportunity to improve their understanding of the radiological aspect of medicine. The purpose of this rotation is to familiarize the student with common radiological investigational modalities, their indications and basic interpretation. They are expected to gain an understanding of the most appropriate use of radiological examinations in patient management including sequence of examinations, monetary costs, patient inconvenience and discomfort. Additionally, the student will develop an understanding of the impact of diagnostic imaging on the patient and society.
Principal Teaching Methods

1. Students will rotate in the designated radiology department for the designated time of the rotation.
2. Daily assignments involve observing clinical work in the department, review of the components of a cross campus 17-unit on-line course, utilization of; departmental library, MSU library, book, periodical, and digital resources
3. Weekly Seminars and Lectures – Attend appropriate conferences within the institution where radiology content may be presented or discussed. (i.e. Grand Rounds, Tumor Board, CPC, M&M Conferences, Radiology Conference, etc.).
4. Students may participate in the Tuesday Didactic session in East Lansing if approved by the supervising radiologist.
5. Students will observe plain film Conventional Radiology (CR) images, Ultrasoundograms, Computed Tomography (CT) scans, Magnetic Resonance Imaging (MRI) images and Nuclear Medicine (NM) and Positron Emission Tomography (PET) scans where available. Additionally, the students may observe the performance of the actual scans and procedures that may take place in the department. The student will observe interpretations as performed by attending radiologists, fellows, and resident’s dependent on resourcesin the designated radiology department.

Educational Content

1. Mix of diseases: The disease mix includes all patients, inpatient and outpatient, who are undergoing radiological testing.
2. Patient characteristics: Radiology cases include both outpatient and inpatient cases as determined by the patient mix at the host department. Demographic and ethnic mix approximates that of the local community. The extensive socioeconomic diversity of the various participating institutions and patient populations support a stimulating training experience with broad diagnostic challenges.
3. Learning venues: Each of the participating radiology departments provides a stimulating and balanced exposure to the patients in that community.
4. Procedures: The types of radiological examinations and procedures available for observation are listed below:
   • Chest X-Rays
   • Computed Tomography
   • Magnetic Resonance Imaging
   • Ultrasonography
   • Nuclear Imaging
   • Positron Emission Tomography (not available at all sites)
   • Fluoroscopy
   • Mammography
5. Ancillary individuals interacted with may include residents, fellows, technologists, and staff.
6. Duration: The rotation is intended for a 2- 4-week block.
7. Structure: Typically, 8 AM to 5 PM daily. The assignment may vary according to the individual departments’ clinical schedule. A schedule of daily assignments will include at minimum:
   • Clinical time 5 days a week.
   • Reading educational materials with daily assignments.
• Viewing of the MSU Radiology on-line module series and other on-line resources such as the Harvard University Radiology on-line teaching series and the RSNA resources for medical students.
• Attend hospital and department conference including interdisciplinary and radiology specific conferences.
• Students are expected to continue to attend any mandatory conferences and didactic sessions of their college during the rotation.

Principal Ancillary Educational Materials

1. Textbooks from which selected reading are assigned:
   • Felson’s Principles of Chest Roentgenology, A Programmed Text, Third Ed. by Lawrence R. Goodman
   • Clinical Radiology, The Essentials, Third Edition by Richard H. Daffner
   • Chest, Abdomen, Bone and Clinical Skills, A Problem-Based Text, Third Edition by Amorosa, Novelline, and Squire.
   • Fundamentals of Radiology, Squires

2. Textbooks, current radiology periodicals, and digital teaching series will be available in the onsite Radiology library and may vary somewhat by site.
3. Full service, extended hour, libraries are present at Michigan State University with onsite medical librarians, web-based searchable medical databases, and standard medical journals in both print and electronic formats. In addition, all MSU students have 24-hour access to the extensive online Michigan State University electronic library, including databases and electronic journals.

Rotation Specific Competency Objectives

1. To increase the student’s knowledge of the various diagnostic imaging modalities offered by a modern radiology department and achieve a better understanding of how to select and sequence the appropriate imaging examinations for specific clinical presentations.
2. To gain additional insight into how diagnostic imaging fits into the multidisciplinary approach to patient care and understand the importance of communication, professionalism, and teamwork between clinicians and radiologists relating to patient management.
3. To offer the student the opportunity to observe diagnostic imaging exams, instill sensitivity towards the patient’s needs and apprehension about particular procedures and discuss the results and interpretation with the radiologist.
4. To encourage correlation of diagnostic images with previously learned normal and pathologic anatomy and pathophysiology.
5. Increase the student’s understanding and recognition of common processes and pathology available from diagnostic images.
6. Introduce students to the indications, contra-indications, patient preparation, post-procedure care, and relative radiation exposure for various diagnostic imaging exams.
7. Know the relative costs of different diagnostic imaging exams and be able to plan and sequence patient exams that optimizes outcome and cost-effective patient care.
8. Increase the students understanding of image digitization, how variables in digitization
influence resolution and the computer's impact on diagnostic imaging (PACS).

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 (https://com.msu.edu) and in the Student Handbook.

ROTATION REQUIREMENTS

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>SUBMISSION METHOD</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attending Evaluation of Clerkship Student</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td>Last Day of Rotation</td>
</tr>
<tr>
<td>Student Evaluation of Clerkship Rotation</td>
<td>Can be accessed and submitted via the “Student Evaluation” link in Kobiljak online schedule.</td>
<td>Last Day of Rotation</td>
</tr>
</tbody>
</table>

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 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. Note that the clinical supervisor and the DME from the rotation hospital are required to sign the form.

Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” resulting in an “N” grade.

Student Evaluation of Rotation: Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the evaluation system and using the Student Evaluation link: http://hit-filemakerwb hc.msu.edu/Clerkship/login_student.html

IMPORTANT NOTE: The student will maintain an “Extended” (ET) grade until they have successfully completed all academic and clinical requirements for the course.
ROTATION EVALUATIONS

Attending 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 actively 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 Clerkship Team. Any evidence of tampering or modification while in the possession of the student will be considered “unprofessional behavior” and will be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct or to the Committee on Student Evaluation (COSE).

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

Student Evaluation of Clerkship Rotation
Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing their online evaluation system at:

http://hit-filemakerwb.hc.msu.edu/Clerkship/login_student.html

Unsatisfactory Clinical Performance
The Instructor of Record and/or the Assistant Dean for Clerkship Education will review/investigate a student’s performance on a rotation when a concern is raised by the supervisor(s), and when the Attending Evaluation of Clerkship Student contains any below expectation marks within the professionalism area, any unsatisfactory written comments, or a total of two or more below average marks on the evaluation.

Professionalism concerns, as well as accolades, will also be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM’s Common Ground Framework for Professional Conduct.

CORRECTIVE ACTION PROCESS
There is no Corrective Action offered on this course. As determined by the Instructor of Record, the student will receive an N grade for the course if all assignments are not completed successfully by (the Tuesday) 2 days after the last day of rotation at 11:59pm (with the exception of the Attending Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

BASE HOSPITAL REQUIREMENTS
Students are responsible for completing all additional requirements set by the hospital/clinical site in which the student is completing the rotation. Students are
not responsible for reporting results of requirements outside the ones listed above to the college.

STUDENT RESPONSIBILITIES AND EXPECTATIONS
Course participants will meet the preceptor on the first day of the rotation at a predetermined location to be oriented to rotation hours, location(s), and expected duties and responsibilities while on-service.

- **The student will meet the following clinical responsibilities during this rotation:**
  o 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:**
  o Students are expected to identify, access, interpret and apply medical evidence contained in the scientific literature related to patients' health problems.
  o 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.

MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES
The following are standard MSUCOM policies across all Clerkship rotations.

ATTENDANCE POLICY
OVERVIEW
Michigan State University College of Osteopathic Medicine (MSUCOM) requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge that are necessary for successful program completion. Students are expected to take minimal time off outside of vacations already appearing in schedules and should only request time off in the rare events and circumstances outlined below.

Specific courses may have additional absence requirements from this general clerkship policy, and it is the student’s responsibility to adhere to these requirements according to the respective course syllabus.

GENERAL POLICY
- All absences from rotations must be **excused absences** obtained by completing the *Clerkship Program Excused Absence Request Form*.
  o Appropriate signatures must be obtained from both the attending physician and the student coordinator at the rotation site.
  o MSUCOM Assistant Dean for Clerkship Education must approve absences for prolonged illnesses, bereavement, research presentations/conferences, or absences exceeding the maximum time off any one rotation.
  o Once appropriate approval signatures are obtained, forms should be maintained for your records in the event they are requested or required at a later date.

- **Unexcused absences** are absences taken without the proper completion of the *Clerkship Program Excused Absence Request Form*, or absences outside of those listed in the Clerkship Attendance Policy. Unexcused absences are considered unprofessional and will result in a report to the
Spartan Community Clearing House and/or the MSUCOM Committee on Student Evaluation (COSE).

<table>
<thead>
<tr>
<th>Length of rotation</th>
<th>Maximum number of days off</th>
<th>Should an absence exceed these limits, the student is responsible for requesting additional days from the Assistant Dean for Clerkship Education via email (<a href="mailto:com.clerkship@msu.edu">com.clerkship@msu.edu</a>) prior to the absence.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 weeks</td>
<td>2 days</td>
<td></td>
</tr>
<tr>
<td>2 weeks</td>
<td>0 days</td>
<td></td>
</tr>
</tbody>
</table>

**Exception for residency interviews from October to January in Year 4 only**

A fourth-year student may be absent a total of 4 days on any 4-week rotation, or 2 days on any 2-week rotation during the months of October-January during Year 4 for interview purposes only. If interview absences exceed these totals, the student must request additional days off from the MSUCOM Instructor of Record (IOR) for the course/rotation by submitting a *Clerkship Program Excused Absence Request Form* to the Course Assistant (CA). Contact information for the IOR and CA are found on the first page of the respective MSUCOM course syllabus.
<table>
<thead>
<tr>
<th>Absence Type</th>
<th>Qualifications</th>
<th>Maximum number of days off</th>
<th>Details</th>
<th>Required Approval from Assistant Dean for Clerkship Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Day</td>
<td>Illness Medical/Dental appointments Wedding, family graduations (additional reasons must be discussed with the Asst Dean for Clerkship Education prior to request)</td>
<td>5 total days per year (individual events must comply with the max of 2 days off any 4-week rotation)</td>
<td>Vacations must be planned during allotted vacation time in schedule. Vacations are not acceptable personal day absences.</td>
<td>No</td>
</tr>
<tr>
<td>Jury Duty</td>
<td>Court documentation must accompany the Clerkship Program Absence Request Form.</td>
<td>N/A</td>
<td>Jury duty, when obligated, is not considered a personal day absence</td>
<td>Yes</td>
</tr>
<tr>
<td>Hospital-organized community events</td>
<td>Example: Special Olympic Physicals</td>
<td>N/A</td>
<td>These events would be considered part of the rotation and not a personal day absence.</td>
<td>No</td>
</tr>
<tr>
<td>Examination</td>
<td>COMLEX USA Level 2 CE/USMLE Step 2 CK/Canadian MCCEE</td>
<td>1 day</td>
<td>Students should be reporting to rotation before/after examination</td>
<td>No</td>
</tr>
<tr>
<td>COMAT/NBME shelf examinations</td>
<td></td>
<td>Time required to complete exam</td>
<td>While on required/core rotations, no excused absences for any professional meeting will be allowed unless the student is presenting research in which they have participated. Required for request to Asst Dean for Clerkship Education; conference agenda, location, date of presentation, invitation, or confirmation of presentation by conference staff, proposed dates of absence.</td>
<td>Yes</td>
</tr>
<tr>
<td>Conference/Research Presentation</td>
<td>Research presentation on core rotation</td>
<td>Travel and presentation time only</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Conference or research presentation while on an elective rotation</td>
<td>3 days on a 4-week elective rotation</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Prolonged Illness, Bereavement, Maternity Leave</td>
<td>Medical related absence or bereavement</td>
<td>TBD</td>
<td>Students-contact the Assistant Dean for Clerkship Education to discuss time off rotations</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Clerkship Program Excused Absence Request Forms*- Once appropriate approval signatures are obtained; forms should be maintained for your records in the event they are requested or required at a later date.
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 student’s demonstrated ability
- The student’s 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, and 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 is 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.

STUDENT 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.

MSU Email

To facilitate communication from faculty and staff to students, students are required to have a functioning MSU email address. Students are responsible for checking their MSU email accounts daily and maintaining their MSU mailboxes so that messages can be received.

Forwarding MSU email to another email account or failure to check email are not valid excuses for missing a deadline or other requirements of the clinical education program.

Further, students must use secure email when working in a hospital, clinic, or other health care setting if discussion of patient information is involved. MSUNet (msu.edu) email is secure; many web-based email systems including Hotmail, Gmail and Yahoo are not.

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 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 by the department according to the student's didactic and clinical performance.

ET/Extended Grade – means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The ET grade will be changed to a final grade once all the completed course requirements have been submitted to and processed by MSUCOM (either to the department or Clerkship Team). An ‘ET' grade will NOT remain on a student’s transcript.

N/No Grade – means that no credit is granted, and that the student did not achieve a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

N Grade Policy

Students who fail this rotation will have to repeat the entire rotation and fulfill all (clinical and academic) requirements.

STUDENT EXPOSURE PROCEDURE

A form has been developed by the University Physician to report incidents of exposure, e.g. needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and may be found on the Clerkship Medical Education page of the MSUCOM website here (https://com.msu.edu/current-students/clerkship-medical-education).

Contact Assistant Dean for Clerkship Education, Dr. Susan Enright, if exposure incident occurs: enright4@msu.edu.

STUDENT VISA

Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-RCPD, or on the web at www.rcpd.msu.edu Once a student’s eligibility for (clinical and/or testing) accommodation has been determined, the student may be issued a Verified Individualized Services and Accommodations (VISA) form. Students must present this VISA form to the Clerkship Team (COM.Clerkship@msu.edu), A-332 East Fee Hall, at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after this date will be honored whenever possible.

If updates or modifications to an existing VISA form are made after the semester begins, it is the responsibility of the student to submit an updated version to the Clerkship Team if
he or she intends to use the new accommodation going forward.

**SYLLABUS ADDENDUM (DUE TO ALTERATION IN ROTATIONS AS A RESULT OF COVID-19)**
**Clerkship Elective Rotation - Radiology (RAD 609)**

If you are removed from the clinical environment at any point during this rotation for Coronavirus-related issues, immediately notify the Clerkship Team at COM.Clerkship@msu.edu. You must have approval from the Assistant Dean for Clerkship Education, Dr. Susan Enright, in order to complete a virtual component of this rotation for any reason.

Requirements of the syllabus have been modified as a result of alternate training. Please understand that new items may be added as new curriculum is found and/or developed. The Course Assistant will update and provide any new additions to this document to you via email if new requirements are added. Please note the below:

1. **Rotation Requirements listed in the syllabus that will remain requirements of the course:**
   a. Students may participate in the Tuesday Didactic session in East Lansing if approved by the supervising radiologist.

2. **New Rotation Requirements of the course that are not listed in the syllabus:**
   i. **THORACIC**
      1. Chest radiology
      2. ICU films
      3. Plain Chest Radiograph
      4. Cross Sectional Thorax
   ii. **ABDOMINAL**
      1. GI Radiology
      2. GU Radiology
      3. Emergency Body CT
      4. Plain Abdominal
      5. Cross sectional Abdomen
   iii. **MSK**
      1. Skeletal Trauma
   iv. **NEURO**
      1. Head CT
   v. 12. PET Basics
   b. (25) questions the final day of rotation- 2-week rotations
   (50) questions the final day of rotation- 4-week rotations

3. **Rotation Requirements listed in the syllabus that will not be requirements of the course:**
   a. Principal Teaching Methods
   i. Students will rotate in the designated radiology department for the designated time of the rotation.
   ii. Daily assignments involve observing clinical work in the department, review of the components of a cross campus 17-unit on-line course,
utilization of departmental library, MSU library, book, periodical, and digital resources.

iii. Weekly Seminars and Lectures – Attend appropriate conferences within the institution where radiology content may be presented or discussed. (i.e. Grand Rounds, Tumor Board, CPC, M&M Conferences, Radiology Conference, etc.).

iv. Student observations of plain film Conventional Radiology (CR) images, Ultra sonograms, Computed Tomography (CT) scans, Magnetic Resonance Imaging (MRI) images and Nuclear Medicine (NM) and Positron Emission Tomography (PET) scans where available. Additionally, the students may observe the performance of the actual scans and procedures that may take place in the department. The student will observe interpretations as performed by attending radiologists, fellows, and resident’s dependent on resources in the designated radiology department.

v. Clinical Clerkship Rotation Evaluation

b. Attending/Faculty/Resident Evaluation of Student
## SUMMARY OF GRADING REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Submission Method</th>
<th>Honors Designation</th>
<th>Pass</th>
<th>Extended Grade</th>
<th>No Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attending Evaluation</td>
<td>Can be accessed via the “Attending Evaluation” link in Kobiljak online schedule. Email completed evaluation to <a href="mailto:COM.Clerkship@msu.edu">COM.Clerkship@msu.edu</a></td>
<td>n/a</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Evaluation</td>
<td>Can be accessed and submitted via the “Student Evaluation” link in Kobiljak online schedule.</td>
<td>n/a</td>
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