



Course Number: RADS 5456 6 credits Summer 2026
Course Title: RA Clinical Preceptorship IV

Professor

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In-office student hours: Tuesday 9:00 a.m.–12:00 p.m.
Wednesday 9:00 a.m.– 12:00 p.m.
Thursday 9:00 a.m.– 12:00 p.m.

Phone and virtual meetings via Zoom are always available by appointment.

Course Overview

This clinical course will focus on imaging procedures, anatomy, physiology, and pathophysiology of the urinary and reproductive systems. In addition to scheduled in-class activities, the students observe and participate in radiographic procedures and imaging under the direct supervision of radiologist preceptors for at least twenty-four (24) clinical hours per week.

Course Objectives

Upon completion of this course, you will be able to:

- Apply knowledge and skills to function at an advanced clinical level.
- Demonstrate communication skills to promote the improvement of health care, develop professional practice, and maintain interdependent working relationships with other health care professionals.
- Use critical-thinking strategies to resolve concerns and issues in radiologic sciences.
- Demonstrate professional ethical behavior.
- Apply patient assessment evaluations.
- Formulate image analysis for urinary and reproductive procedures.

- Identify and describe the use of contrast materials used in urinary and reproductive imaging.
- Identify indications and contraindications for appropriate urinary and reproductive procedures.
- Discuss the pathophysiology of diseases commonly affecting the urinary and reproductive systems.
- Identify common pathologies demonstrated on urinary and reproductive imaging.
- Perform procedures under the supervision of a radiologist.
- Demonstrate competence in urinary and reproductive procedures, including patient preparation, fluoroscopy, and other procedures encountered during the semester.

Teaching Strategies

Clinicals, lectures, group discussions, written assignments, image reviews, and student presentations are used in this course. In addition to scheduled in-class activities, the student will observe and participate in radiographic procedures and imaging under the direct supervision of his/her preceptor radiologist for at least twenty-four (24) clinical hours per week.

Course Materials

Textbooks- Required

Herring, W. (2019). *Learning radiology: The basics* (4th ed.). Elsevier Saunders. [ISBN: 978-0-323-56729-9] (\$50.00 and up)

Sun, E.X., Shi, J., & Mandell, J.C. (2021). *Core radiology: A visual approach to diagnostic imaging* (2nd ed.). Cambridge University Press. [ISBN 978-1-108-96591-0] (\$100 and up)

Recommended

Levine, M.S., Ramchandani, P., & Rubesin, S.E. (2012). *Practical fluoroscopy of the GI and GU tracts*. Cambridge, UK: Cambridge University Press. [ISBN: 978-1-107-00180-0] (\$169.00 and up)

Subscriptions/ Licenses- Required

Platinum Planner student clinical recordkeeping system. (\$70)

Microsoft Office

Midwestern State University offers Office 365 to all students. Instructions on how to access this free software can be located at [Office 365 Education](#)

Computer Requirements

You need access to an up-to-date computer, webcam, and microphone, along with an internet connection, for this course. Use a different browser when working in Brightspace Desire2Learn (D2L). The recommended browsers for D2L are Google Chrome, Mozilla Firefox, and Safari. Other browsers may be incompatible with D2L.

Course Requirements

To succeed in this course, you must:

- Complete 216 total clinical hours.
 - Perform at an acceptable level as evaluated by the radiologist preceptor.
 - Submit two case studies, according to guidelines.
 - Enter patient interactions/procedures in an online database.
 - Complete course modules, reading, quizzes, and/or assignments.
 - Successfully perform the In-class image review (Hot-Seat) with a score of 80 or higher.
 - Meet all submission deadlines.
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Communication

Communication with the Instructor

Communication will be through your Midwestern State University email account. An email account is created for every MSU student. If you have not accessed this account yet, please do so by logging into the Portal and clicking the student email account icon located in the Portal. You can have any messages sent here forwarded to the email account of your choice.

The instructor will respond to or at least acknowledge email messages from students within a maximum of five (5) business days when MSU is in session. Beyond standard university holidays and breaks, the instructor will notify you of any extended periods during which email contact is not practical (e.g., professional meetings). When emailing the instructor, please include your full name, course, and section number, and a thorough explanation in your message. This will help expedite your request or needs.

You should also periodically check the 'News' section within D2L for course updates and other important information.

Behavioral Expectations and “Netiquette”

Behavioral Expectations

All students are expected to help create an environment conducive to effective teaching and learning for all participants. Behavior that disrupts teaching and learning is unacceptable; accordingly, all face-to-face or online interactions should be civilized, respectful, and relevant to the topic. Diverse opinions and engaging argumentation are critical to the higher learning endeavor, but inappropriate behavior that disrespects others or inhibits others' learning may result in sanctions, including, but not limited to, removal from the classroom and/or the course. Serious or habitual offenses may result

in a referral to the Radiologic Sciences Department Chair, the College Dean, or the Dean of Students.

Disruptive behaviors include:

- offensive comments
- loud and/or frequent side conversations
- dominating classroom discussions
- frequently interrupting others
- aggressively challenging others
- name-calling (attacking the person)
- appearing under the influence of drugs or alcohol

Netiquette

When communicating in a digital environment (e.g., email, discussion boards), please use proper netiquette. The following guidelines will help you to communicate effectively.

- Don't say things that you wouldn't say in a face-to-face environment or any public place.
- Don't share confidential information.
- Use the subject line to identify the content of the message.
- Stay up to date on forum postings by reading them regularly.
- Always comply with copyright by citing your references when posting online content.
- Use individual e-mail for messages to individuals rather than tying up the group list.
- Electronic communication does not provide visual cues, such as smiles or frowns, that face-to-face communication allows. Therefore, humor and/or sarcasm in a written text might be misunderstood and interpreted as rude or inflammatory in the online environment. Choose your words carefully to avoid hurting or angering anyone. Should emotions become inflamed, do not promote anger. Take a cooling-down period, perhaps overnight, before you engage in the online activity again.
- Avoid using all capital letters in your text. This is considered 'shouting' in the online classroom.
- Aim for clarity and readability in your text.
- Use proper English and remember to spell-check.
- If you do not understand the assignment's directions or the posts of your classmates, don't be afraid to ask for clarification.

Academic Integrity

RADS 5456 adheres to the [MSU Code of Conduct](#).

However small, academic dishonesty breaches academic integrity. Your participation in this course comes with the expectation that your work will be completed in full observance of the MSU Code of Student Conduct. You should consult the current Student Handbook for answers to any questions about the code.

Coursework and Assignments

All components of RADS 5456 are designed to represent each student's efforts and are NOT to be shared, copied, or plagiarized from other sources. Therefore, when you submit your efforts for grading, you are attesting that you have abided by this rule.

An online plagiarism and artificial intelligence screening service may be used in this course. Student assignments may be uploaded to the service to identify similarities to other student papers and published works and to detect AI-generated work.

Cheating includes, but is not limited to

- Use of any unauthorized assistance in taking quizzes, tests, or examinations
- Dependence upon the aid of sources beyond those authorized by the professor in writing papers, preparing reports, solving problems, or completing other assignments.
- The acquisition of tests or other academic materials belonging to the university faculty or staff without permission.

Plagiarism includes, but is not limited to

- The use of paraphrasing or direct quotation without a correct citation in the text and the reference list
- The published or unpublished works of another person
- You may NOT submit papers and assignments you have previously submitted for this or any other course.
- Using materials generated by agencies engaged in "selling" term papers is also plagiarism.

Use of Artificial Intelligence (AI) Tools: This course permits you to use artificial intelligence (AI) tools, such as ChatGPT, Gemini, Copilot, Scite, DeepSeek, Grok, Deep Research, Grammarly, etc., to get guidance on assignments, as long as you do so in an ethical and responsible manner.

Students may **NOT** use generative AI tools to complete multiple-choice, matching, fill-in-the-blank, open-ended, or essay exam questions.

Students may use generative AI tools to brainstorm ideas, create an outline or headings for their paper, and improve their grammar. Other uses of generative AI tools are prohibited. If the student uses AI-assisted technologies, a disclosure must appear at the end of the document in a separate section before the references, using the following format. Without a proper declaration, the assignment may receive a grade of zero or result in course failure, depending on the severity of the incident.

Declaration of Generative AI and AI-Assisted Technologies in the Writing Process Statement: *During the preparation of this work, the author(s) used [NAME TOOL / SERVICE] to [REASON]. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content.*

Using AI tools in an unethical or irresponsible manner, such as copying or paraphrasing the output without citation or transparency, using the output as your own work without verification or integration, or using the output to misrepresent your knowledge or skills, is considered a form of academic dishonesty and a grade of zero (0) will be given for the quiz, assignment, etc. Cases may also be referred to the Dean of Students for possible dismissal from the University.

If you have any questions about what constitutes ethical and responsible use of AI tools, please consult with the instructor before submitting your work.

You are encouraged to review the tutorials and suggested websites for more information about plagiarism. If you have any questions about what constitutes plagiarism, please consult:

- The [University Academic Dishonesty Policy](#)
- The website [Plagiarism.Org](#), or
- The professor

You are accountable for any mistakes or errors made by the AI tool. Always check and edit the output before submitting your work. If you discover any inaccuracies or inconsistencies in the output after submission, notify the instructor immediately and correct them as soon as possible.

Clinical Records and Evaluations

If a student is found guilty of falsifying clinical documentation or completing an evaluation as a preceptor, they will be immediately dismissed from the RA program.

Evaluation

Grade distribution

- 40% Professional Evaluations (2 evaluations- 20% each)
- 25% In-class image review (Hot seat)
- 15% Module Quizzes
- 10% Case Study
- 10% Semester Documentation

Grade Scale

A = 90% – 100%

B = 80% - 89%

C = 70% - 79%

D = 60% - 69%

F = 59% and below

Final grades are rounded (Ex. 89.5 is rounded to 90 or an A; 89.4 is not rounded). Individual quizzes and/or assignments are not rounded,

Grading Cycle

All assignments are graded together to maintain greater consistency. Grading begins on the first business day after the due date, outside of university holidays and professional meetings, and is typically completed before the next due date. You may track your progress through the Gradebook in D2L.

Late Work and Extra Credit

Due Dates.

Assignments must be submitted by 23:59 (11:59 pm) Central Time on the due dates listed in the course schedule. If you fail to meet a deadline, you will receive **no (0) credit** for the assignment not submitted on time. Assignments are graded as **complete** after the due date.

Emergency Extension. If you have a major event such as a death in the family, illness, hospitalization, or other extenuating circumstances, email the instructor as soon as possible and on or before the scheduled due date. The instructor will grant extensions on an individual basis.

Extra credit:

You have what it takes to succeed in this course by studying and communicating with your instructor; therefore, extra credit is **not** awarded in this course.

Attendance

This is a hybrid distance education course. Because of the unique distance learning format for this program, you must be present and on time for the on-campus seminar or required Zoom sessions to receive a passing grade. There are no exceptions to this policy. If you are tardy for class, you risk a grade reduction or dismissal from the class. The instructor will contact you in case of campus closures or other unforeseen events to arrange a virtual class session.

Regular logins to D2L will benefit you in several ways, such as ensuring that messages from the professor are received promptly, you do not miss important information, and you do not miss due dates. You should expect to log in at least three (3) times per week. See the Course Schedule section for specific due dates.

Inclement Weather

Safety is always first when considering whether to attend classes and/or clinical experiences. There may be times when the University remains open, but clinical experiences are delayed or canceled. Students who are participating in assigned off-campus activities (for example, clinicals, internships, student teaching, health services placements, or other assigned coursework at locations remote from campus) should use their best judgment unless the site is closed or the student is unable to safely reach the site.

On rare occasions, MSU on-campus classes may be canceled. If this occurs, notice will be provided via e-mail, the course website, and/or social media as soon as the President provides notice. When university offices or facilities close due to inclement weather or an emergency, course delivery will move to an online format. Students who may have trouble accessing courses remotely should consult with their instructor.

Course Organization

Module 1: Adrenals & Upper Urinary System

Module 2: Lower Urinary System

Module 3: Male and Female Reproductive Systems

Assessments

Professional Evaluations completed by the Radiologist Preceptor(s) - 40% (2 per semester, 20% each)

To ensure you are demonstrating proper communication skills, professional ethical behavior, critical thinking skills, patient management skills, patient safety and radiation safety practices, image observation skills, procedural/ technical skills, and a willingness to accept criticism, the Radiologist Preceptor(s) (and RA Clinical instructor(s), if at the site) will evaluate your performance twice a semester (**midterm and end-of-semester**).

The instructor will email the Radiologist Preceptor and the RA Clinical Instructors a link for the evaluation. Radiologist Preceptor(s) may gather information from other radiologists and staff to make their evaluations. If you have more than one Radiologist Preceptor or you have RA Clinical Instructors performing your evaluation, your grade will be averaged from all the submitted evaluations. Evaluations must be submitted directly to the instructor by the Radiologist Preceptor and/or the RA Clinical Instructor. The instructor will review the grade and the feedback with you after submission.

D2L Module Quizzes -15%

To assess your understanding of the information in the modules, each module will have a 25 to 30-question quiz. The module quizzes are timed (50-60 minutes); therefore, you must be prepared by reading the required material before attempting the quiz. The quizzes consist of multiple-choice, matching, and multiple-response questions. The Module 2 quiz will include a case study essay in which you will be given a case scenario and asked to answer 3 questions about it. Because this is an essay question, 15 minutes will be added to the time (75 minutes). The time limit for the quizzes will be enforced, and the quiz will prevent any changes after the time limit is exceeded; therefore, watch your time.

The quizzes must be completed by the due dates and times in the course schedule.

Video Case Study Presentation-10%

To assess your knowledge of urinary and reproductive pathology and procedures that you learned in the course, you will describe the patient presentation, characteristics of

the pathology, appearance of the pathology on imaging, and patient management by recording a 10 to 15-minute video presentation with PowerPoint and voice-over.

You will select a ***pathology identified during a reproductive or urinary procedure*** for a patient you encountered during your clinical rotation. You will post your selection on the discussion board for the instructor's approval. Students may not have the same topic. Topic selection is on a first-come, first-served basis.

You will record a 10- to 15-minute PowerPoint presentation with a voice-over that covers all items on the case study checklist in the course. All patient information must be removed in accordance with HIPAA policy. There should also be in-text citations and an APA-formatted reference list at the end of the presentation.

You will upload the file **AND** PowerPoint slide deck to the appropriate Dropbox in the course. The instructor will upload your submission to a discussion board forum where you can see others' case studies. You will provide a peer review of the other students' presentations using positive constructive feedback. You will be assessed using a rubric found in the course. The presentation and peer review must be completed by the due dates and times in the course schedule.

In-class Image Review (Hot-Seat) -25%

To assess how you formulate initial observations on imaging, describe and identify pathology, and develop differential diagnoses, you will participate in a "hot seat" for image observation during seminar classes. Various faculty members will display randomly selected images, and you will describe what you observe in those images. Radiographs will primarily focus on the urinary and reproductive systems, but may include the chest, abdomen, gastrointestinal, and musculoskeletal images as a review. You will be assessed using a rubric found in the course.

By this time in the RA curriculum, students MUST demonstrate competence during in-class image reviews. Students who perform below a grade-level B on the image review will have to repeat it. Students who do not achieve a minimum of grade level B on the repeated review will not complete this course and will not continue in the RA Program.

Semester Documentation - 10%

To ensure students record their clinical experiences, clinical time, procedures, and competencies, All Semester Documentation will be submitted to the appropriate assignment Dropbox or recorded in the Platinum Planner reporting system.

Components

Semester goals

You will develop 3-5 semester goals to complete by the end of the semester. The goals should be measurable and achievable. You will upload a Word document containing the goals to the correct course Dropbox by the due date listed in the course syllabus.

Daily Clinical Procedures

You will record all patient procedures you assisted and performed in clinical in the Platinum Planner system. You must document the radiologist or other designated individual who observed you performing the procedure. You must document only the last 5 digits of the patient's accession, exam, or medical record number for verification purposes. If you have a question on how to record the procedure, contact the instructor for guidance.

Clinical Time

This semester, you are responsible for a minimum of **216 clinical hours**, of which 36 are spent reviewing images with the Radiologist Preceptor. The semester is 10 weeks in length. Clinical hours for this semester are based on 9 weeks x 24 contact hours per week with a Radiologist. Of the 24 hours per week, you are expected to spend 4 hours per week of direct image review with the Radiologist Preceptor.

You will use the Platinum Planner system to "clock in" and "clock out" at the clinical site to record your time. You may record your time on your portable device, but the location services must be active. If you are traveling from one clinical site to another, you must clock-out at one site and clock-in at another. Time is not counted for travel between sites. Sometimes you may forget to clock in or out, or there may be technical difficulties. You may create a time exception for these circumstances. You will be allowed only 6 time exceptions per semester.

The instructor will approve all times. Your time will **not** be approved if you clock in or out from a location that is not your clinical site or at a different clinical site than the one selected. If you have any questions or difficulty with the system, contact your instructor.

The instructor reserves the right to verify all clinical documentation. Any falsification of clinical documentation will result in immediate dismissal from the RA program and an F in the course.

Mid-semester Clinical Experience Narrative

The instructor would like to know about your experiences and feelings during your time at clinical and identify any issues that may need advice or intervention.

To communicate your experience, you will write a 1-to 2-page narrative paper and submit it to the appropriate Dropbox in the course by the due date in the course schedule. You can discuss your clinical experiences and self-reflect on your time in clinical. You can discuss what you are learning, challenges, areas for improvement, communication/interaction with radiologists and technologists, interesting cases, complications or incidents, personal struggles, and things the student would like to work on for next semester. These are your thoughts and experiences, so references are **NOT** needed, but please use proper writing mechanics (grammar, punctuation, etc.) for the narrative. You will submit the narrative to the appropriate Dropbox by the due date in the syllabus.

ARRT Clinical Competency Forms

For any procedures in which you demonstrate competency, the appropriate ARRT forms (CR2A–2E) will be completed by the Radiologist Preceptor. You will scan and upload any ARRT clinical competency forms **AND** the MSU competency worksheet to the appropriate course Dropbox as needed throughout the semester. ***It is your responsibility to retain all ARRT Clinical Competency forms.***

End-of-semester Clinical Experience Narrative

The instructor would like to know about your experiences and feelings during your time at clinical and identify any issues that may need advice or intervention.

Like the mid-semester clinical experience, you will write a 1-to 2-page narrative paper to communicate your experiences and submit it to the appropriate Dropbox in the course by the due date in the course schedule. You can discuss your clinical experiences and self-reflect on your time in clinical. You can discuss things you are learning, challenges, things needed to be improved on, communication/interaction with radiologists and technologists, interesting cases, complications or incidents, personal struggles, and things that you would like to work on for next semester, among others. ***Include the goals from the first of the semester that you have accomplished and/or not accomplished this semester.*** These are your thoughts and experiences, so references are **NOT** needed, but please use proper writing mechanics (grammar, punctuation, etc.) for the narrative. You will submit the narrative to the appropriate Dropbox by the due date in the syllabus.

Miscellaneous Documentation

To meet the ARRT professional activities and accomplishments requirements, you will upload any continuing education, seminars, presentations, community service, skills check, etc. (if applicable) performed during the semester to the appropriate Dropbox by the due date at the end of the course syllabus.

Clinical Completion Plan

To encourage active participation in clinical and keep students on track with the procedural requirements for graduation, the instructor will provide a suggested clinical completion plan. This semester, **75% (375)** of the total minimum procedure performances should be completed by this time in the program, and **75% (10-12)** of the total competency requirements should be completed.

All course requirements must be completed before a grade is awarded. Students must complete the final and all coursework by the dates published in the course schedule.

RADS 5456- Summer 2026- Course Schedule

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Date	Activity * All assignments due by 11:59 p.m. CST
Monday, June 1	Classes Begin
Sunday, June 7	Mandatory ZOOM 9:00 am CST
Sunday, June 14	Semester Goals due to Dropbox
Sunday June 21	Video Case Study Topics due to Discussion Board
Sunday, June 21	Module 1 Quiz due
Sunday, July 5	Mid-semester Professional Evaluation due (sent directly to preceptors)
Sunday, July 5	Mid-semester Clinical Experience Evaluation due
Sunday, July 12	Module 2 Quiz due
Sunday, July 19	Submit Video Case Study to Dropbox
Wednesday, July 22 by 4:00 p.m.	Last day to drop with a "W"
July 25-26	RA On-Campus Days
Sunday, August 2	Feedback on Video Case Studies Due
Sunday, August 2	Module 3 Quiz due
Wednesday, August 5	All Semester Documentation due (End-of-semester Clinical Experience Evaluation, ARRT Competencies, and Misc. Documents) to correct Dropbox Clinical procedures and clinical time entered in Platinum Planner.com

Special Needs

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable adjustments to its policies, practices, services, and facilities to ensure equal opportunity for qualified persons with disabilities to participate in all educational programs and activities.

The Office of Disability Services (ODS) provides information and assistance, arranges accommodations, and serves as a liaison for students, instructors, and staff. A student/employee who seeks accommodations based on disability must register with the [Office of Disability Support Services](#). Documentation of disability from a competent professional is required.

Individuals with grievances related to discrimination or lack of accommodation due to disability are encouraged to resolve the issue directly with the relevant area. If the matter remains unresolved, the [Office of Disability Support Services](#) will provide advice and/or assistance to resolve it. The grievance procedure may be found in the [Student Handbook](#).

The ADA Coordinator may be contacted at (940) 397-4140 or at 3410 Taft Blvd., Clark Student Center, Room 168.

The Use of Auxiliary Aids and Intermediaries

Students with documented disabilities are provided with accommodations in the Program, which may include the involvement of an intermediary or auxiliary aid. No disability can be reasonably accommodated with an aid or intermediary that provides cognitive support, substitutes for essential clinical skills, or supplements clinical and ethical judgment. Thus, accommodations **cannot** eliminate essential program elements or fundamentally alter the RA program curriculum.

Administrative Process

Unresolved issues related to this course should be first addressed between the student and the course instructor. If there is no resolution, students must follow this sequence:

1. Department Chair – Dr. Lynette Watts (940-397-4833)
2. College Dean - Dr. Jeff Killion (940-397-4594)
3. Dean of Students – Matthew Park (940-397-7500)

Technical Difficulties

On occasion, you may experience problems with accessing D2L, accessing class files located within D2L, connecting with your internet service, or encountering other computer-related problems. Inform the instructor of a technical problem as soon as possible. If a problem occurs on our end, such as D2L failure, then a due date extension will typically be granted.

However, keep in mind it is your responsibility to have (or have access to) a working computer for this class. Assignments and quizzes are due by the due date, and personal computer technical difficulties will not be considered grounds for the instructor to grant students extra time to submit assignments, quizzes, or discussion postings.

Dropbox assignments that can be attached to an email should be emailed to the instructor as soon as a problem is encountered. Failure to do so may result in points being lost, regardless of connection issues.

For help options:

- For D2L issues, go online to the [Distance Education Helpdesk](#)
- By phone call the Distance Education office at 940-397-4868 between 8:00 a.m. and 5:00 p.m. CST.
- Use the D2L help link in D2L.

- Contact the instructor.
 - For other computer access issues, visit the [MSU Information Technology Website](#).
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Campus Carry Policy

Senate Bill 11, passed by the 84th Texas Legislature, allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked in accordance with state law. For more information regarding campus carry, please refer to the University's webpage at [Campus Carry](#)

The instructor reserves the right to make changes to the syllabus, including assignment due dates, in the event of unforeseen circumstances. These changes will be announced as early as possible so that students can adjust their schedules.