



Midwestern State University
Robert D. & Carol Gunn College of Health Sciences & Human
Services
The Shimadzu School of Radiologic Sciences
**RADS 5043- Advanced Patient Assessment,
Management, and Education**

Course Number: RADS 5043 3 credits Spring 2025
Course Title: Advanced Patient Assessment, Management, and Education

Professors

Vicki Dillard, DHSc, RRA, RT(R)(CV)(CT) and Shaun Nordeck, M.D.

Email: vicki.dillard@msutexas.edu

Office: Centennial Hall 430R

Phone: (866) 575-4305 or (940) 397-4083

Fax: (940) 397-4845

In-office student hours: Tuesday 9:00 a.m.–12:00 p.m.,
Wednesday 9:00 a.m.–4:00 p.m.,
Thursday 9:00 a.m.– 12:00 p.m.

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

Course Overview

Requires intensive clinical thinking involving patient care, assessment, management, and education. Students acquire skills in conducting patient interviews, performing physical assessments, and analyzing and interpreting physiological data.

Course Objectives

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

- Obtain patient history and facilitate communication
- Perform assessment of patient's
 - Vital signs, lab values, diagnostic tests
 - Lymphatic system
 - Mental Status and Pain Assessment
 - Head and neck,
 - Chest and lungs,
 - Breast and axilla,
 - Cardiovascular system,
 - Abdomen,

- Musculoskeletal system,
- Neurologic system
- Apply critical thinking and proper recording of information
- Evaluate needed response to emergency situations

Teaching Strategies

Lecture, independent reading assignments, online videos, group discussion, written assignments, image review, and student presentations. Desire2Learn open book unit quizzes, performance of Objective Standardized Clinical Encounter (OSCEs), Laboratory values interpretation exercise, and development of Emergency Situations assignment.

Course Materials

Textbooks- Required

Ball, J., Dains, J., Flynn, J.A., Solomon, B.S., & Stewart, R.W. (2023). *Book-organized : Sherpath for Ball Seidel's guide to physical examination* (10th ed). Elsevier. [IBSN 13: 978-0-323-87713-8] \$217.00 and up

American College of Radiology. (2022). *ACR Manual on Contrast Media. Found in the course.*

Laboratory Values Interpretation Resource for Radiologist Assistants- Found in the course.

Supplies- Required

Stethoscope with a diaphragm and bell- (ADC General Diagnostic Stethoscope) \$65.00 and up

Penlight with pupil gauge- \$6.00 and up

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 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 course units' reading, quizzes, and/or assignments.
 - Meet all submission deadlines.
 - Perform Objective Standardized Clinical Encounter (OSCE) at an acceptable level.
 - Complete all assignments
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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 it will ensure 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.

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 have the option to have any messages sent here to be forwarded to the email account of your choice.

The instructor will respond 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 when email contact is not practical (professional meetings, etc.). 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 from learning may result in sanctions, including but not limited to the 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 through a digital environment (e.g., email, discussion boards), please use proper netiquette for your communication. 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 5043 adheres to the [MSU Code of Conduct](#).

In particular, 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.

All components of RADS 5043 are designed to represent the efforts of each student individually and are NOT to be shared, copied, or plagiarized from other sources. Therefore, when you submit your efforts for grading, you are attesting 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 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.

Artificial Intelligence (AI)- Declaration of Generative AI in Academic Writing

For all writing assignments, the student will not use generative artificial intelligence (AI) to construct the content of the assignment. Using AI generators as a tool is not "cheating" but using AI generators for assignments and then submitting the output as your own work without crediting the source is plagiarism. AI-assisted technologies should only be used to improve readability and language. If used, it is the responsibility

of the student to carefully review and edit this content, as AI can generate incorrect, incomplete, or biased information. Using these technologies requires human oversight and control. Additionally, AI and AI-assisted technologies should not be listed as an author or co-author or cited as an author. 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 proper declaration, the assignment may be subject to a grade of zero or failure of the course, 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] in order 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.*

Academic dishonesty will not be tolerated in this class. When unsure whether a situation will be interpreted as academic dishonesty, you should ask your professor for clarification. If you are guilty of academic dishonesty, 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 a student is guilty of falsification of clinical documentation or evaluation, they will be immediately dismissed from the RA program.***

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

Evaluation

Grade distribution

- 30% Unit Quizzes
- 25% OSCE
- 15% Unit Case-Based Assignments
- 15% Emergency Situations Assignment
- 15 % Lab values exercise

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 and is a B). Individual quizzes and/or assignments are not rounded,

Grading Cycle

All assignments are graded together as a group to maintain a higher level of 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 scheduled due dates 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.

Course Organization

Unit 1: Cultural Competence; The History and Interviewing Process; Examination Techniques and Equipment; Clinical Reasoning; The Health Record

Unit 2: Vital Signs and Pain Assessment; Mental Status; Growth and Nutrition; Skin, Hair, & Nails

Unit 3: Lymphatic System; Head and Neck; Eyes; Ears, Nose and Throat

Unit 4: Breast and Axillae, Chest & Lungs; Heart; Blood Vessels

Unit 5: Abdomen; Female Genitalia; Male Genitalia; Anus, Rectum and Prostate

Unit 6: Musculoskeletal System; Neurologic System; Putting it all Together

Unit 7: Lab Values; Emergency and Life-threatening Situations; Radiology Emergency Management

Assessments

D2L Unit Quizzes -30%

To assess your understanding of the information in the unit, each unit will have a 25-question quiz. The unit quizzes are timed (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 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. You should start your quiz with plenty of time to finish before the quiz time deadline.

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

Objective Standardized Clinical Encounter (OSCE) - 25%

To assess your ability to create a patient-centered encounter, address the diagnostic challenges posed, prepare a patient for the next steps in care, and document the encounter appropriately, the student will perform an OSCE on a standardized patient.

In a standardized patient encounter, the student will determine the patient's presenting symptom, perform a focused History and Physical examination, develop a working differential diagnosis, and create a list of the next steps in the patient's work-up. The faculty will evaluate the student using a checklist or rubric. The checklist is an evaluation of the student's communication and interpersonal skills.

After the encounter, the student will document the patient's history, physical examination, differential diagnoses, and the next steps in the patient's work-up. The written note will serve as a second component of the grading of an OSCE. The student will have a total of fifteen (15) minutes for the patient encounter. The student will then have fifteen (15) minutes for the written note.

Please see additional information in the course.

D2L Case-Based Unit Assignments -15%

To assess your understanding of the information covered in Units 2- 6 and practice your physical assessment techniques, you will be given simulations corresponding to the chapter. You will perform pass/fail virtual simulations to practice for the OSCEs and assess weaknesses in examination technique.

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

Emergency Situations Assignment - 15%

To assess your critical thinking skills, the instructor will randomly assign you a patient scenario. The instructor will give you the patient's history, labs, and all other pertinent

information on the patient. You will submit an essay (2 – 4 pages double-spaced) including the following:

- Are there signs and symptoms indicating the patient is in distress and in need of intervention? If so, how would you classify the emergency? (Minor-supportive or monitoring only, Moderate emergency- some intervention needed, Severe emergency-life threatening). How would you assess the patient (subjective and objective observations)? What pathological processes are happening to cause the symptoms?
- Discuss tasks performed by an RA or delegated to other healthcare providers. How would you stabilize the patient? What would you do first, second, third, etc.? If drugs are needed, which drugs and normal dosages for symptoms?
- How would the RA identify whether a situation is improving, or more advanced care is needed? Signs of improvement or deterioration of the patient's condition.
- Include a cover page and references.

Submit the assignment to the RA Emergency Situation Essay Dropbox by the due date in the syllabus.

Lab Values Exercise - 15%

To assess your evaluation of laboratory values, you will be randomly assigned two patient scenarios with laboratory values and reference ranges. You will determine the laboratory values that are out of normal reference ranges, discuss common causes of the identified abnormal laboratory values, formulate a list of differential diagnoses, discuss potential implications to radiologic tests, and possible treatments to correct laboratory values. You will complete the assignment on the **Laboratory Values Interpretation sheet** that was assigned for each scenario and submit the sheet to the appropriate Dropbox in the course.

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.

See the Course Schedule below.

RADS 5043 Advanced Patient Assessment, Management, and Education Spring 2025 Course Schedule

Date	Activity <i>* Note: These are Central Times*</i>
January 21	Classes Begin
February 1–2	On-campus days
Friday, February 7	Unit Quiz 1 due by 11:59 p.m.
Friday, February 14	Unit 2 Simulations – due by 11:59 pm (Assessing mental status, Height and Weight, Skin, hair and nails,
Friday, February 21	Unit 2 Quiz – due by 11:59 p.m.
Friday, March 7	Unit 3 Simulation – due by 11:59 pm (Head and Neck)
Friday, March 7	Unit 3 Quiz – due by 11:59 p.m.
March 8 – 16	Spring Break
Friday, March 21	Unit 4 Simulations – due by 11:59 pm (Chest and Lungs, Heart, Peripheral vascular system)
Friday, March 28	Unit 4 Quiz- due by 11:59 p.m.
Friday, April 11	Unit 5 Simulation – due by 11:59 pm (Abdomen)
Friday, April 11	Unit 5 Quiz – due by 11:59 p.m.
Wednesday , April 16	Unit 6 Simulations due (MSK and Neuro)
April 17–20	Easter Break
Friday, April 25	Unit 6 Quiz – due by 11:59 p.m.
Friday, April 25	Emergency Situations Assignment - due to Dropbox by 11:59 p.m.
Wednesday, April 30 by 4:00 p.m. CST	Last day to withdraw with a “W” in the class
May 3 – 4	On campus- OSCE
Friday, May 9	Lab values exercise
Wednesday , May 14	Unit 7 Quiz- due by 11:59 p.m.

Special Needs

Following Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable

adjustments in 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 based on a disability are encouraged to resolve the problem directly with the area involved. If the matter remains unresolved, advice and/or assistance will be provided by the [Office of Disability Support Services](#) for resolution. The grievance procedure may be found in the [Student Handbook](#).

The ADA Coordinator may be contacted at (940) 397-4140, or 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 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. Interim Department Chair – Dr. Lynette Watts (940-397-4883)
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 you may encounter 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 a reason for the instructor to allow students extra time to submit assignments, quizzes, or discussion postings.

Dropbox assignments that can be attached in 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 go 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, go online to the [MSU Information Technology Website](#).

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, following 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 when unforeseen circumstances occur. These changes will be announced as early as possible so that students can adjust their schedules.