



**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 2022**  
**Course Title: Advanced Patient Assessment, Management, and Education**

## **Professor**

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

Email: [vicki.dillard@msutexas.edu](mailto:vicki.dillard@msutexas.edu)

Use this format in the subject line: 5043\_your last name\_topic of the message

\*email is the best way to reach me. If I haven't responded within 72 hours, please email me again.

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## **Course Overview**

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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**

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Upon completion of this course, the student should 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

## **Teaching Strategies**

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Independent reading assignments and videos, Desire2Learn open book unit quizzes, performance of objective structured clinical encounters (OSCEs), Laboratory values interpretation exercise, and development of Emergency Situations assignment.

## Course Materials

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### Textbooks

#### Required:

Ball, J., Dains, J., Flynn, J.A., Solomon, B.S., & Stewart, R.W. (2019). *Seidel's Guide to Physical Examination* (9<sup>th</sup> ed). Mosby: St Louis, MO. [ISBN 13: 978-0-323-48195-3]

American College of Radiology. (2021). *ACR Manual on Contrast Media*. Version 10.3 – Found in course documents.

*Laboratory Values Interpretation Resource for Radiologist Assistants- Found in course documents*

### Materials

Stethoscope with a diaphragm and bell  
Light pen

### Internet connectivity

Students need an up-to-date computer with an internet connection in this course.

### Proctor Specifications/ Computer Requirements:

- PC Users: A well-working computer running Windows XP or higher with 1024 MB of RAM or higher.
- Mac Users: A well-working computer running Mac OS X or higher.
- Headphones or working speakers connected to the computer.
- Webcam and microphone
- A reliable high-speed internet connection (minimum 768 Kbps/384 Kbps Download/Upload).
- A web browser with Adobe Flash Player installed.

## Course Requirements

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The student must:

- Complete reading assignments and watch instructional videos.
- Successfully complete the required online examinations
- Meet all submission deadlines.
- Complete all assignments
  - Emergency situation assignment
  - Laboratory values interpretation exercise
  - History and physical assignment

## Communication with Instructor

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Contact information for the instructor is listed at the beginning of this syllabus. Email is the preferred mode of communication. *Students must use their standardized MSU Student email for correspondence about this course.* When emailing the instructor, you must use the following subject header:

**5043\_your last name\_topic of message**

**Example: 5043\_Smith\_Quiz 4**

When there is a need to contact a student, the instructor will use the student's students.mwsu.edu email account. The instructor is not responsible for sending emails to any other email account (set up your email to forward messages to an email you check often to avoid potentially missing any correspondence).

Faculty members will not be responsible for keeping up with other email addresses for students. If you have not established this account or you need help forwarding messages, do so as soon as possible by going to [MSU IT Help](#).

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 students of any extended periods of time when email contact is not practical (professional meetings, etc.).

## Evaluation

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### Grade distribution

- 45% Unit Quizzes
- 25% OSCE
- 15% Emergency Situations Assignment
- 15 % Lab values exercise

### Grade Scale

A = 100 - 90

B = 89 - 80

C = 79 - 70

D = 69 - 60

F = 59 and below

### 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 a 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.

### Feedback

Feedback varies throughout the course. The News section of the course is where the instructor will send messages to the entire class. It is best to set up

the student D2L account to receive an email notification (to the email of your choice) when News items are posted, so important updates are not missed.

- Click the down arrow in the News section on the 5043 course home page
- Select Notifications
- Check the box next to “News - new item available” and any other boxes the student would like to receive an email notification.
- Check the email address which to send email notifications. If the student needs to change this, select “change your email settings” and enter the new email address. This should be an email address the student checks frequently.

The students are welcome to email any questions to clarify concepts or look for further explanations. If there are repeated questions, the instructor will provide feedback or supplementary resources in the News section of the course so that everyone can benefit from it.

### **Late Work**

**Due Dates.** Assignments and quizzes must be submitted by 23:59 (11:59 pm) Central time, on scheduled due dates in the course schedule. If a student fails to meet a deadline the student will receive **no (0) credit** for the assignment or quiz not submitted on time.

**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. I will grant extensions on an individual basis.

## **Technical Difficulties**

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On occasion, you may experience problems accessing D2L or class files located within D2L, Internet service connection problems, and/or other computer related problems. Make the instructor aware 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. *Dropbox assignments that can be attached in an email should be emailed to the professor as soon as a problem is encountered. Failure to do so may result in points being lost.*

### **For help:**

- Use the D2L help link in D2L
- Contact your Instructor
- And for other computer access issues, contact information systems at [MSU IT Help](#)

## **Attendance**

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This is a hybrid distance education course. Because of the unique distance learning format for this program, students must be present and on-time for the on-campus seminar to receive a passing grade. There are no exceptions to this policy. Students who are tardy for class risk a grade reduction or dismissal from the class.

Because students and instructors in this program do not regularly interact in a traditional classroom setting, electronic communication is essential. Students must be vigilant in checking email and logging onto Desire2Learn

## **Special Needs**

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In accordance with 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. The ODS has assistive devices such as books on tape, recorders, and adaptive software which can be loaned to qualified individuals. A student/employee who seeks accommodations on the basis of disability must register with the [Office of Disability Services in the Counseling Center](#), Clark Student Center Room 168 (940)397-4140. 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 Services for resolution. The grievance procedure may be found in the Student Handbook and Activities Calendar.

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

## **Administrative Process**

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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:

- Department Chair – Beth Veale' (940-397-4611)
- College Dean - Dr. Jeff Killion (940-397-4594)
- Dean of Students – Matthew Park (940-397-7500)

## **Honor System**

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RADS 5043 adheres to the [MSU Code of Conduct](#).

Academic dishonesty, however small, creates a breach in academic integrity. A student's participation in this course comes with the expectation that his or her work will be completed in full observance of the MSU Code of Student Conduct. A student 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. When students submit their efforts for grading, they are attesting they abided by this rule.

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 instructor in writing papers, preparing reports, solving problems, or completing other assignments; or
- 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, by paraphrase or direct quotation without correct citation in the text and in the reference list,
- The published or unpublished works of another person.
- Students may NOT submit papers and assignments that they have previously submitted for this or other courses.
- The use of materials generated by agencies engaged in "selling" term papers is also plagiarism.

Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated in this class. Whenever a student is unsure of whether a situation will be interpreted as academic dishonesty, he/she should ask the instructor for clarification. If students 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.

Students 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 entire University Academic Dishonesty Policy which can be found in the [University Student Handbook](#) at
- The website [Plagiarism.Org](#), or
- The instructor.

References

1 iParadigms. (2014). What is plagiarism? Retrieved from [www.whatisplagiarism.org](http://www.whatisplagiarism.org)

The instructor will be using an online plagiarism checker in this course.

**PLEASE NOTE**

***By enrolling in this course, the student expressly grants MSU a "limited right" in all intellectual property created by the student for the purpose of this course. The "limited right" shall include, but shall not be limited to, the right to reproduce the student's work/ project in order to verify originality and authenticity, and for educational purposes. Specifically, faculty may submit***

***student papers and assignments to an external agency to verify originality and authenticity, and to detect for plagiarism.***

## **Campus Carry Statement**

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Senate Bill 11 Handgun 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 licensed concealed carry are appropriately marked, in accordance with state law (Penal Code 30.06 signage). Please note, open carry of handguns, whether licensed or not, and the carrying of all other firearms (rifles, shotguns, etc.), whether open or concealed, are prohibited on campus. For more information regarding campus carry, please refer to the University's webpage at: [Campus Carry](#).

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## **CLASS ACTIVITIES AND ASSIGNMENTS**

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### **Independent Reading Assignments**

Students should complete the reading assignments, watch the assigned videos, answer the chapter objectives, and review the questions at the chapter end before attempting the open book unit quizzes. The course content is divided into units by chapters. Additional resource material is available through the courses. See the ***Reading Assignments*** in the course for the assigned reading and videos. See the Course Schedule at the end of this syllabus for quiz and assignment deadlines.

### **Desire2Learn Open Book Unit Quizzes - 45%**

Students should complete the reading assignments, answer the chapter objectives, and watch instructional videos before attempting the unit quizzes.

When a student has reviewed a unit and is ready for the quiz, he or she will log on to Desire2Learn and receive a customized timed unit quiz consisting of randomized multiple-choice questions.

It is important to know the unit content before attempting the unit quizzes because the quizzes are ***timed***. Quizzes contain random questions and students will have 60–90 minutes to complete depending on the number of questions. Quiz scores will be available immediately after a student submits his or her quiz for grading.

Students are encouraged take the quizzes at regular intervals throughout the semester to provide a better educational experience, but all unit quizzes are available starting the day classes begin to provide maximum flexibility with student schedules. ***Quizzes must be completed by the due dates or a “0” will be recorded.*** Students who know they will miss a due date because of extenuating circumstances should contact the instructor so their situations can be dealt with on an individual basis. Acceptance of an extenuating circumstance is the discretion of the instructor.

If students have technical difficulties during a quiz, they should use the “Report a problem” link in the “Help” area located at the right side of the Desire2Learn course, contact the MSU Information Systems Support Staff, *and* send an email right away to the course instructor explaining what happened.

If a student finds a faulty quiz test item or believes a quiz question has been scored incorrectly, he or she should send an email to the course instructor which includes the following:

- Unit Quiz Number (1-6)
- Question Stem
- Answer Scored as Correct by the Computer
- Answer the Student Thinks Should be Correct
- Rationale Supporting Why the Student’s Answer is Correct
- Page numbers must be included when referencing the textbook in a rationale

After reviewing the case, if the course instructor thinks a revision is justified, the student’s quiz score will be revised to reflect the additional points and the test bank will be updated.

### **Objective Structural Clinical Encounter (OSCEs) - 25%**

The OSCE (Objective Standardized Clinical Encounter) is designed to assess the student’s ability via simulated patient encounters, to create a patient-centered encounter, address the diagnostic challenges posed, to prepare the patient for next steps, and lastly, to document the encounter appropriately.

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 ten (10) minutes for the written note. If the student finishes the patient encounter before the fifteen-minute time limit, he or she may apply the additional time on the note.

Please see additional information in the course.

### **Emergency Situations Assignment - 15%**

The instructor will randomly assign a patient scenario to students. The instructor will give the student the patient history, labs, and all other pertinent information on the patient. The student 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 need, 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 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%

Students will be randomly assigned two patient scenarios with laboratory values and reference ranges. Students will determine the laboratory values which 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 treatment to correct laboratory values. Students will complete the assignment on the **Laboratory Values Interpretation Template** for each scenario and submit the templates 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 course work by the dates published in the course schedule.

**See the Course Schedule below.**

| <b>RADS 5043 Advanced Patient Assessment, Management, and Education<br/>Spring 2022 Course Schedule</b> |  |
|---|--|
| <b>Date</b>   | <b>Activity</b><br><i>* Note: These are Central Times*</i> |
| January 10  | Classes Begin  |
| January 29-30   | On-campus  |

|                           |   |
|---------------------------|---|
| Friday, February 4        | Unit Quiz 1 due by 23:59                                  |
| Friday, February 11       | Laboratory Values Exercise due to Dropbox by 23:59        |
| Friday, February 25       | Unit 2 Quiz due by 23:59 pm                               |
| Friday, March 11          | Unit 3 Quiz – due by 23:59                                |
| March 12-20               | Spring Break  |
| March 21 by 16:00p.m. CST | Last day to withdraw with a “W” in the class              |
| Friday, March 25          | Unit 4 Quiz- due by 23:59                                 |
| April 14-17               | Easter Break  |
| Friday, April 8           | Unit 5 Quiz – due by 23:59                                |
| Friday, April 22          | Unit 6 Quiz- due by 23:59                                 |
| Friday, April 29          | Emergency Situations Assignment -due to Dropbox by 23:59. |
| April 30-May 1            | On campus- OSCE   |