



RADS 3203 Pathophysiology

Summer 2026

Midwestern State University

Robert D. & Carol Gunn College of Health Sciences & Human Services

The Shimadzu School of Radiologic Sciences

Revised June 2026

Faculty:

Dr. Ludie Tyran, Ed.D., RT(R)(M)(ARRT)

Centennial Hall, Room 430F

Tel: 940-397-4571 or Toll Free 866-575-4305

Fax: 940-397-4845

Email: ludie.tyran@msutexas.edu

Course Overview:

This course investigates general and organ system pathology. Content includes etiology, pathogenesis, clinical features, prognoses, and therapies for each specific pathology.

Course Objectives:

Upon completion of this course the students will:

- Describe how pathologic processes affect normal structure and function
- Identify the basic characteristics, etiology, pathogenesis, clinical features, and diagnostic tools including medical imaging procedures, prognoses, and therapies for specific pathologies
- Write a pathology report with APA citations and a properly formatted APA reference list

Textbook:

Story, L. (2025). *Pathophysiology: A practical approach* (5th ed.). Burlington, MA: Jones & Bartlett Learning. ISBN: 9781284288155

American Psychological Association. (2020). *Publication manual of the American Psychological Association* (7th ed.). Author. [ISBN 9781433832161]

Required digital materials for this course are part of the Courseware Access and Affordability Program at MSU Texas. To access your materials, please log into D2L and navigate to your course. Students are charged for required course materials on their student account with the Business Office. It is possible for students to opt-out of the Program and purchase the required course materials on their own. Opt-out instructions are sent to students' official *my.msutexas.edu email address on the second day of class. Please contact the MSU Bookstore (940) 397-4303 if you have any questions about the opt-out process.

Additional Resources:

**It is recommended that students download Google Chrome (a free download through Google) or Mozilla Firefox and use one of those as the default browser for ALL D2L courses. This appears to eliminate 99% of technical issues often encountered with Internet Explorer, Apple Safari, etc.*

**Students MUST have reliable computer and internet access.*

Communication with the Instructor:

Communication will be through the student's 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 students of any extended periods of time 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.**

In addition, there will be several discussion board areas: one section for social messages among the students, one section for pathology topic approval, and one graded discussion board.

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

Class Meeting Date and Time:

Since this is an online course, there are no mandatory face-to-face sessions. However, the student should be vigilant in logging into D2L. Regular checks will ensure messages from the instructor are received in a timely manner. This course is on a schedule that will be strictly adhered to. See the Course Schedule at the end of this syllabus for specific information about activities and due dates. The instructor will be available to meet face-to-face or over Zoom with any interested students. This meeting is optional and must be confirmed by email ahead of time with the instructor.

Students should check for class announcements on the course website in D2L. This course also includes an UNGRADED discussion board on D2L so students may post questions they want the instructor to answer. The entire class will benefit from the answers. Students should check the Instructor Discussion Board at least once per week.

Weather Closure Practices:

Since this is a fully online course, it will continue as scheduled without interruption in the event the MSU campus closes for inclement weather.

Methodology/Teaching Strategies:

Independent reading assignments, D2L open book module quizzes, discussion boards, case study assignments, directed pathology report, and a comprehensive final examination.

Evaluation Method:

Percentage Distribution	Value
Module Quizzes	20%
Discussion Boards	20%
Pathology Report	30%
Comprehensive Final Exam	30%

Grading Scale:

Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	59 or below

***The last opportunity to drop this course with a grade of “W” is 4:00pm July 22, 2026.** Please refer to the Undergraduate Bulletin for details about receiving a grade of “Incomplete” in a course.

In an emergency or extenuating circumstance, a student may request a grade of “Incomplete” in a course before grades are submitted.

If the instructor grants the “Incomplete,” the student has until thirty (30) days after the beginning of the next long semester to complete the course requirements. If the student does not complete the course requirements within the deadline, the grade of “Incomplete” will automatically convert into a grade of “F.”

Student Responsibilities:

As a student enrolled in this course, you will be responsible for adhering to and meeting posted deadlines and due dates. All activities for this course are listed at the end of this syllabus.

Activities such as quizzes have expiration dates. Please take note that expiration dates for quizzes will differ from deadlines for assignments and activities.

Quizzes and assignments/activities are spaced out in a manner that will allow you ample time to complete them. Assignments/activities will be accepted on or before the posted due date and deadline. ***Late assignments will be accepted on a case-by-case basis.** If a student cannot complete a course activity by the indicated due date, the student must contact the course instructor immediately. If a student has emergency issues, then the student must contact the instructor as soon as possible (within a day or two). Any activity not completed and submitted by the due date will be addressed on an individual basis.

***Students must use baccalaureate level writing skills including complete sentences, correct grammar, and proper punctuation. All assignments will be graded for accuracy, completeness, quality, spelling, grammar, and integrity.**

All assignments will be submitted in a dropbox within D2L. All assignments will be completed in Times New Roman or Arial, 12 point font.

***All assignment submissions made by students in D2L are considered final submissions. It is the student’s responsibility to ensure that the correct and complete file has been uploaded. *If a student submits an incorrect document, an incomplete draft, or any unintended version, the assignment will be graded as submitted. Students are strongly encouraged to double-check their upload before finalizing the submission.**

****Additionally, Apple file formats such as .pages or Keynote files will not be accepted. *All submissions must be uploaded in Microsoft Office formats—such as .doc, .docx, .ppt, or .xlsx—or as otherwise specified in the assignment instructions.***

See the course calendar for the specific due date.

Assignments/Quizzes:

Students may proceed through the course content at their own pace within the boundaries set by the course schedule and the MSU Academic Calendar. See the course calendar within D2L and the course schedule at the end of this syllabus for specific information about activities and due dates.

If students have technical difficulties, they should use the 'Help' link within D2L, contact the MSU Information Systems Support Staff, and send an email to the professor explaining what happened ***at the time of the incident.**

Independent Module Readings

- Module 1: Chapters 1, 2, 3
- Module 2: Chapters 4, 5, 6
- Module 3: Chapters 7, 8, 9
- Module 4: Chapters 10, 11, 12
- Module 5: Chapters 13, 14

D2L Module Quizzes (20%)

Students should complete the reading assignments and be familiar with the chapter objectives before attempting the module quizzes.

When a student has reviewed a module and is ready for the quiz, he/she will log into D2L and receive a customized timed module quiz consisting of randomized multiple choice questions. Quizzes contain 10 random questions and students will have 20 minutes to complete. See the course schedule at the end of this syllabus for the open and close dates for the quizzes.

It is important to know the module content before attempting the module quizzes since the quizzes are ***timed**. Quiz scores will be available immediately after a student submits for grading. Quizzes must be completed by the due dates or a zero (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 at the discretion of the instructor.

If students have technical difficulties during a quiz, they should use the 'Help' link located on the top toolbar within D2L to contact the MSU Information Systems Support Staff and send an email to the course instructor immediately explaining what happened.

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

- Module quiz number (1-5)
- Question stem
- Rationale supporting why the student's answer is correct
- Include page numbers when referencing the textbook

For example, a student cannot send the message: "I think question number ten is wrong on quiz four" because each student gets a quiz of randomly generated test items. The instructor has to know the question stem to find the question in the database. After reviewing the situation, if the course instructor thinks a revision is justified, the students' quiz score will be revised to reflect the additional points and the test bank will be updated.

Discussion Boards (20%)

Each module contains a graded discussion board. Once all the required reading has been completed, students will post their answer to the appropriate discussion board. Each student must then write a substantial reply to two of their classmates' posts. Posts such as "I agree" are not acceptable.

Pathology Report (30%)

Since both Medical Imaging and Exercise Physiology students enroll in this course, each profession will write their own version of the pathology report. Separate instructions have been written for each profession.

The purpose of the Medical Imaging student report is to reinforce the students' understanding of a pathologic condition and the medical imaging procedures used for diagnosis and treatment.

The purpose of the Exercise Physiology student report is to reinforce students' understanding of a pathologic condition relevant to exercise physiology and the clinical methods used for diagnosis and treatment.

Detailed instructions for this report can be found on D2L.

***Review the grading rubric for this assignment on D2L.**

Comprehensive Final Exam (30%)

The final exam is a comprehensive exam and will be administered within D2L. ****The final exam is open-book but if students are using an ebook text, another device***

must be used to access the textbook. Ninety minutes will be given to answer 50 questions.

Special Needs:

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 Support Services (DSS) provides information and assistance, arranges accommodations, and serves as a liaison for students, instructors, and staff. The DSS has assistance 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 Support Services in the Clark Student Center Room 168 or call 940-397-4140 for more information. Documentation of disability from a competent professional is required.

Individuals with grievances related to discrimination or lack of accommodation on the basis of 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.

Conduct/Honesty/Honor System:

RADS 3203 adheres to the MSU Code of Conduct. In particular, academic dishonesty, however small, creates a breach in academic integrity. A student's participation in this course comes with the expectation that his/her work will be completed in full observance of the MSU Code of Student Conduct. A student should consult the Student Handbook for answers to any questions about the code.

Students are encouraged to take full advantage of many resources available including Internet sites, handouts, other textbooks & journals, faculty, and peers. This interactive collegial learning environment is conducive to life-long learning.

Specific components of RADS 3203 are designed to represent the efforts of each student individually and are NOT to be shared. These components include the written assignment submitted for a grade. Submitting someone else's work as your own or improperly cited work constitutes plagiarism. Please see the Midwestern State

University Catalog for further discussion of plagiarism. Plagiarism will constitute in an F for the course and the student will be referred to administration for further action. When students submit their efforts for grading, they are attesting they abided by this rule.

****Quizzes and exams are not to be copied in any form or shared in any form.***

Students caught engaging in such activity will receive an F for the course and be referred to University administration for dismissal.

Cheating includes, but is not limited to: (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing other assignments; or (3) 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 on 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. Students are encouraged to review the tutorials and suggested websites for more information about plagiarism.

Artificial Intelligence (AI) Usage Policy

In this course, the use of Generative AI tools (such as ChatGPT, Claude, Gemini, etc.) is permitted with specific limitations to ensure academic integrity and the development of critical research skills.

- **Research & Sourcing**: You may use AI tools for preliminary research and topic exploration. However, to ensure the validity and scholarly weight of your work, at least 50% of the sources cited in any assignment must be retrieved directly from the MSU Moffett Library online databases.
- **Writing & Content**: The use of AI in the writing process is strictly limited to spelling and grammar correction. AI tools are not permitted to generate text, arguments, analysis, or the bulk content of any assignment, including research papers, posters, and discussion board posts.
- **Verification**: To maintain the integrity of your research, you must be prepared to provide PDF copies of all sources used upon request.
- **Consequences**: Failure to adhere to these guidelines will be treated as a violation of academic integrity. A violation will result in a grade of zero for the assignment. Egregious cases of academic dishonesty involving AI may result in a failing grade (F) for the course.

****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 students work product in order to verify originality and authenticity, and for educational purposes.

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

Tentative Course Schedule

Date	Activity <i>All assignments are due by 11:59 PM CST on the indicated due date</i>
June 1	Classes begin All quizzes open
June 10	Module 1 Discussion & Quiz
June 10	Pathology Topic Request to Discussion Board
June 24	Module 2 Discussion & Quiz
July 8	Module 3 Discussion & Quiz
July 20	Pathology Report Due
July 22	Module 4 Discussion & Quiz
August 5	Module 5 Discussion & Quiz
July 29	Final Exam Opens at 6 AM
August 6	Final Exam Closes at 11:59 PM