

Updated 08/03/2023



WACO, TEXAS

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**COURSE SYLLABUS**

**AND**

**INSTRUCTOR PLAN**

**RADIOGRAPHIC PATHOLOGY**

**RADR 2217\_201**

**MEREDITH R. BROWN BSHS, MS, RT (R)**

**NOTE: This is an 8-week course.**

# RADIOGRAPHIC PATHOLOGY

RADR 2217

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## **Course Description:**

An overview of the disease process and common diseases and their appearance on medical images. Radiographic pathology is the study of disease processes visualized radiographically. The purpose of this course is to provide the second-year radiography student with a basic working knowledge of pathology as it pertains to diagnostic medical radiography. This course presents those pathologic conditions that are most commonly encountered by the staff of the radiology department and the medical terminology associated with those pathologic conditions.

NOTE: This course builds upon knowledge that has been presented in previous courses. For this reason, you may expect test questions that relate directly and indirectly to information presented in your previous RADR courses.

## **Prerequisites and/or Corequisites:**

Must be 2nd year Radiologic Technology program student.

## **Course Notes and Instructor Recommendations:**

This course is taught via face-to-face. We will use the textbook and online *open educational resources (OERs)*. The schedule will indicate readings and assignments for each unit. Additional reading assignments will be provided on Brightspace or via internet readings.

*F2F alteration (if needed): In the event we are unable to meet in person such as with the Covid pandemic, this course could likely be converted to hybrid or completely online using various options of delivery such as asynchronous recorded lectures and two-way synchronous teaching as determined by the instructor. Students remain available for all scheduled course times to complete course work as assigned and be present when requested for synchronous lectures, in-person class, or lab.*

## **Instructor Information:**

Instructor Name: Meredith R. Brown BSHS, MS, RT (R)

MCC E-mail: mbrown@mclennan.edu

Office Phone Number: 254-299-8342

Office Location: CSC C202

Office/Teacher Conference Hours: As posted on office door

Other Instruction Information: Email is preferred method of contact. Please include your name, student ID, and telephone number in the email's content.

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## **Required Text & Materials:**

Title: Comprehensive Radiographic Pathology

Author: Eisenberg

Edition: 7th

Copyright year: 2021

Publisher: Mosby, Incorporated

ISBN 978-0-323-56670-4

**MCC Bookstore Website:** <http://www.mclennan.edu/bookstore/>

## **Methods of Teaching and Learning:**

Lecture (including the possibility of 2-way communication, recorded lecture and/or face-to-face), quizzes, exams, reading assignments, practice worksheets, online open educational resources, projects, lab practicums, and group activities.

## **Course Objectives and/or Competencies:**

### UNIT ONE: INTRODUCTION TO PATHOLOGY

1. Define the terms edema, ischemia, infarction, hemorrhage, and neoplasia.
2. Describe the various hereditary diseases and their radiographic manifestations.
3. Define the terms immune, immunoglobulin, active immunity, passive immunity, histamine, and anaphylactic reaction.
4. List and discuss the major pathways of dissemination for malignant neoplasms.
5. Discuss AIDS and the precautions required when performing examinations on patients with AIDS.

### UNIT THREE: PATHOLOGY OF THE RESPIRATORY SYSTEM

1. Describe the anatomy and physiology associated with the respiratory system.
2. Identify anatomic structures of the respiratory system on diagrams and radiographs.
3. Define the terminology related to the respiratory system.
4. Describe the pathologic conditions that affect the respiratory system, the radiographic manifestations of these conditions, and the changes in radiographic technique required by these pathologic conditions.

### UNIT FOUR: PATHOLOGY OF THE SKELETAL SYSTEM

1. Describe the anatomy and physiology of the skeletal system.

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2. Identify anatomic structures of the skeletal system on both diagrams and radiographs.
3. Define the terminology relating to the skeletal system.
4. Describe the pathologic conditions that affect the skeletal system, the radiographic manifestations of these conditions, and the changes in radiographic technique required by these pathologic conditions.

### UNIT FIVE: PATHOLOGY OF THE GI

1. Describe the anatomy and physiology of the gastrointestinal and biliary systems.
2. Identify anatomic structures of the gastrointestinal and biliary systems on both diagrams and radiographs.
3. Define the terminology relating to the gastrointestinal and biliary systems.
4. Describe the pathologic conditions that affect the gastrointestinal and biliary systems, the radiographic manifestations of these conditions, and the changes in radiographic technique required by these pathologic conditions.

### UNIT SIX: PATHOLOGY OF THE URINARY SYSTEM

1. Describe the anatomy and physiology associated with the urinary system.
2. Identify anatomic structures of the urinary system on diagrams and radiographs.
3. Define the terminology related to the urinary system.
4. Describe the pathologic conditions that affect the urinary system, the radiographic manifestations of these conditions, and the changes in radiographic technic required by these pathologic conditions.

### UNIT SEVEN: PATHOLOGY OF THE CARDIOVASCULAR SYSTEM

1. Describe the anatomy and physiology associated with the cardiovascular system.
2. Identify anatomic structures of the cardiovascular system on diagrams and radiographs.
3. Define the terminology related to the cardiovascular system.
4. Describe the pathologic conditions that affect the cardiovascular system, the radiographic manifestations of these conditions, and the changes in radiographic technique required by these pathologic conditions.

### UNIT ELEVEN: PATHOLOGY OF THE REPRODUCTIVE SYSTEMS

1. Describe the physiology of both the male and female reproductive systems.
2. Identify anatomic structures of the male and female reproductive systems on both diagrams and radiographs.

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3. Define the terminology relating to the reproductive systems.
4. Describe the various pathologic conditions affecting the reproductive systems and their radiographic manifestations.

### UNIT TWELVE: MISCELLANEOUS DISEASES

1. Describe the common nutritional disorders and define the terminology related to these pathologic conditions.
2. Describe sarcoidosis and the various related pathologic conditions.
3. Describe muscular dystrophy.
4. Describe melanoma and its related pathologic conditions.
5. Describe systemic lupus erythematosus.

### **Course Attendance/Participation Guidelines:**

As outlined by both the MCC and Health Profession Division policies, regular and punctual attendance is expected of all students, and a complete record of attendance will be kept by each instructor for the entire length of each course. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades.

In addition, as specifically stated in the MCC Health Professions policy on attendance in didactic courses, a student will be dropped if a **cumulative of 15% of class meetings are missed due to unexcused reasons.**

Please refer to the full MCC Attendance policy and the MCC Health Professions Division policy for full details.

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

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## Course Outline or Schedule:

Date	Topic	Reading, Due Dates, etc.
<b>Week 1</b> 3/12	Syllabus, Schedule, Poster info, Intro to Pathology	Chapter 1
3/14	Imaging Techniques	Chapter 2 Test BrSp (Ch 1 & 2)
<b>Week 2</b> 3/19	Respiratory System	Chapter 3
3/21	Respiratory System	Chapter 3 Test BrSp
<b>Week 3</b> 3/26	Skeletal System	Chapter 4
3/28	Skeletal System	Chapter 4 Test BrSp
<b>Week 4</b> 4/2	GI System	Chapter 5
4/4	GI System	Chapter 5 Test BrSp
<b>Week 5</b> 4/9	Urinary System	Chapter 6
4/11	Urinary System	Chapter 6 Test BrSp
<b>Week 6</b> 4/16	Cardiovascular System	Chapter 7
4/18	Cardiovascular System (online)	Chapter 7 Test BrSp
<b>Week 7</b> 4/23	Reproductive System	Chapter 11
		No BrSp Test

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	4/25	Project WRAP-UP/WORK day		
	4/26	Last Day to submit draft portfolio for “Turn it In” Report (no photos) on Brightspace		
Week 8	4/28	Last Day to submit FINAL draft portfolio for “Turn it In” Report (no photos) on Brightspace		
	4/30	Final Exams - All Projects DUE		LAB

### **Course Grading Information:**

Your grade in this course will be based upon your performance in the following areas:

#### **TASK PERCENTAGE OF COURSE GRADE**

Assignments, quizzes, etc..... 30%

Chapter/Unit Tests ..... 30%

Pathology Portfolio (Final Exam).....40%

TOTAL 100% = COURSE GRADE

The course grade will be applied to the following scale:

90% - 100% A

80% - 89% B

75% - 79% C

60% - 74% D

59% or less F grade.

All final course grades will be applied to the following scale and will be rounded up to the nearest whole number when greater than or equal to .5 or above.

Examples: 93.4 = 93, 93.5 = 94, or 93.6 = 94 and so on.

Should you have any questions regarding the rounding of grades please contact your instructor.

### **Late Work, Attendance, and Make Up Work Policies:**

#### **Make Up Work**

Student will be permitted to make up assignments with no penalty due to absence, caused by:

1. Personal illness WITH VERIFICATION FROM YOU DOCTOR

2. Death in the immediate family (mother, father, brother, sister, or a child of oneself).

All other late assignments will receive 10 point deduction on the first day missed and five points everyday thereafter. This is only accountable on business days.

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#### **Grading**

Grades for each exam are posted on Brightspace for students to view. Students are required to report to the instructor any incorrect posting within two days of taking an exam. Failure of students to check their grades in order to report any incorrect posting and failure to report this to the instructor will result in grades remaining as posted on Brightspace.

#### **Performance Goal, Expectation, and Requirements**

The Radiologic Technology program coursework is designed to provide students with a structured comprehensive curriculum that prepares them for a career as a professional health care provider. It is imperative that students develop and maintain a strong knowledge base of all course material and competencies to be successful.

Therefore, the program has established a performance goal for all coursework and assessments in all RADR courses of an 80% or higher. Students that do not achieve the minimum grade of 80% will be required to complete an activity of remediation assigned by the instructor of the course immediately following. The activity requirements will vary as they will be customized according to factors such as the students' needs, the purpose of the assignment, its content, etc., and the instructor will maintain all records of completion. Students that fail to complete the required remediation activities will receive an "Incomplete" ("I") grade for the course, regardless of overall passing grade point average, until all work is submitted. An "Incomplete" ("I") in any course must be resolved prior to the start of the following semester or the resulting grade will convert to an "F" and the student will not pass the course.

**\*\*Remediation assignments MUST BE submitted prior to the next Unit exam or a 5 point penalty will be assessed to the Unit exam grade requiring the remediation.**

#### **Tardiness/Absence Policy**

Tardiness is defined by the instructor of this class as any time past the originally scheduled time class is to begin. At 9:00 am, class has officially begun and a student is considered late if arrival is any time after that. Habitual tardiness indicates a lack of discipline and will be dealt with on an individual basis. The doors to the classroom will be locked at 9:00am and the student will be denied access until the first break of the class which is usually at 50 minutes after the beginning of class.



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- Students will be allowed to take a brief break at approximately 50 minute intervals. A break is designed to allow the student restroom facility time as well as technology breaks to check cell phones/messages, etc.
- Leaving while class is in session can be disruptive to others. Students may leave but need to understand that the classroom doors are locked and will remain locked and no re-entry will be allowed until the next break or class has officially ended. Should you have an emergent situation and need to leave during class, please gather your belongings quietly and leave since you will not be allowed class access until the next break or until class is over. Special considerations need to be discussed with the instructor.
- Missing any portion of class at any time is considered an absence for the entire class period. \*Only extreme circumstances will be considered for an excused absence and is at the discretion of the course instructor.
- Regular and punctual attendance is expected of all students, and a complete record of attendance will be kept by each instructor for the entire length of each course. Students will be counted absent from class meetings missed, beginning with the first official day of classes.
- Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades.

#### **Student Behavioral Expectations or Conduct Policy:**

Academic honesty and professional conduct is expected and will be enforced by the instructor. Individuals who cannot conduct themselves in a respectful manner will be asked to leave the classroom on the first occurrence. If continued behavioral incidents occur, the student will be removed from the classroom and referred to the Disciplinary Officer in the Career Development Office. If this occurs, the student may be expelled from the program and possibly the college. Likewise, if a student copies someone else's work,(plagiarism), cheats , or lies about assignments , the student will be required to attend a conference with the instructor, and will receive a grade of zero for the assignment in question.

If a student is caught cheating in any form, the student will receive a grade of "F" for the course and may risk being expelled from the college.

### **Brightspace Use and Activity**

The instructor of this course intends to utilize Brightspace as both a communication tool as well as its features for announcements, assignments, and assessments. It is the student's responsibility to understand procedures and the importance of accessing Brightspace often, most likely daily, (as well as the MCC issued email), in order to stay on-track with the activities and requirements to complete this course.

### **E-mail correspondence**

The instructor of this course intends to communicate with students using McLennan Community College email. Use of other email addresses could cause a breakdown in communication and important information missed. Email messages are to be formulated in a professional fashion with no use of text speaking or symbols. Email correspondence should open with an appropriate salutation/greeting to the person intended and close with an appropriate closing/sign off.

### **Examinations**

Random pop quizzes, unit exams and a comprehensive final will be given. Make up tests are not given in this course. (See 'Online Quizzes and Testing Policy' below). missed exams will receive a grade of zero. If an in-class pop quiz is missed for an unexcused absence, the student will receive a grade of zero.

### **Online Quizzes and Testing Policy**

Some chapter tests and/or quizzes may be posted on Brightspace and will be timed according to length and content. Adequate time will be provided to complete the test provided the student has studied the material prior to taking the test. There will not be sufficient time to "look up" each test question searching for the answer.

- 5 points will be deducted for every minute that a student goes over the allotted testing time.
- If a student fails to take the Brightspace test or quiz during the allotted time frame, a zero will be given with no opportunity to re-take the test. This only applies to tests or quizzes that are not begun and completed during the time frame.
- If a technology glitch occurs, the student is to contact the instructor immediately to report the issue. The instructor will investigate the issue and has the option to re-set the test or quiz. If "glitches" continue to be a recurring problem, the student will be required to test at the Testing Center.

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### **Smoking Cessation**

Electronic Vapor Products Use of electronic smoking cessation devices are prohibited in the classroom or the building. ECig/Vapor devices can only be used outside the building. Likewise, these products cannot be used inside any clinical site building. Electronic Devices All cell phones, pagers, or other electronic devices must be turned off during class. You may check your messages during breaks or between classes. Laptop computers may be used to facilitate note taking or to view classroom visuals that are posted on Brightspace, but must be turned off or put in sleep mode during tests. No other use of the lap top will be tolerated during class. If at any time during class you create a distraction to the Instructor or your classmates, you will be asked to leave the class.

### **[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)**

**(<https://www.mclennan.edu/highlander-guide/policies.html>)**

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

10/09/2023



## **ACADEMIC RESOURCES/POLICIES**

### **Accommodations/ADA Statement:**

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit [www.mclennan.edu/disability](http://www.mclennan.edu/disability)

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

[disabilities@mclennan.edu](mailto:disabilities@mclennan.edu) (254)299-8122  
Room 319, Student Services Center

### **Title IX:**

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at [titleix@mclennan.edu](mailto:titleix@mclennan.edu) or by calling, Dr. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465. MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>

Additionally, Title IX provides rights and protections for pregnant and newly parenting students. Go to McLennan's Title IX webpage at [www.mclennan.edu/titleix/](http://www.mclennan.edu/titleix/). It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

**Student Support/Resources:**

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom. You can contact the Academic Support and Tutoring team via Zoom or email ([ast@mclennan.edu](mailto:ast@mclennan.edu)) by going to our website (<https://www.mclennan.edu/academic-support-and-tutoring/>)

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact either MCC CREW – Campus Resources Education Web by calling (254) 299-8561 or by emailing [crew@mclennan.edu](mailto:crew@mclennan.edu) or a Success Coach by calling (254) 299-8226 or emailing [success@mclennan.edu](mailto:success@mclennan.edu).

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to <https://calendly.com/paulannespantry-mcc/15min>.

The CREW, Success Coaches, and Paulanne's Pantry are all located on the second floor of the Student Services building in Success Coaching Services.

**MCC Foundation Emergency Grant Fund:**

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an

emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at [https://www.mclennan.edu/foundation/docs/Emergency\\_Grant\\_Application.pdf](https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf)

**MCC Academic Integrity Statement:**

Please view our [Academic integrity statement](#) for more information about academic integrity, dishonesty, and cheating. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

**Minimum System Requirements to Utilize MCC's D2L|Brightspace:**

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

**Minimum Technical Skills:**

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

**Backup Plan for Technology:**

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

**Email Policy:**

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails. For more information about your student email account, go to [www.mclennan.edu/studentemail](http://www.mclennan.edu/studentemail).

**Instructional Uses of Email:**

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

**Email on Mobile Devices:**

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email [Helpdesk@mclennan.edu](mailto:Helpdesk@mclennan.edu) for help.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- [Email Setup for iPhones and iPads](#)
- [Email Setup for Androids](#)

**Forwarding Emails:**

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

For more helpful information about technology at MCC, go to [MCC's Tech Support](#) or email [helpdesk@mclennan.edu](mailto:helpdesk@mclennan.edu).

**Disclaimer:**

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.