

McLennan C O M M U N I T Y C O L L E G E

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Introduction to Radiography

RADR 1201_87

**Michelle Morphis MBA, R.T. (ARRT)
Associate Professor Radiologic Technology**

NOTE: This is a 16-week course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals. We are also concerned for your safety. We are working through COVID-19 guidelines to make sure we offer a safe environment for you and our faculty. This will include smaller class sizes to manage social distancing and proper cleaning techniques. You will have the advantage of a physical classroom experience but may also need to work part of the time online as we adjust to limited classroom capacity. This will also allow us the flexibility to move online if so directed by federal, state and/or local COVID 19 guidelines. Faculty and staff are preparing now to ensure that you have the best experience in the midst of these uncertain times.

Course Description:

An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and the health care system.

(Semester Hours 2)

Prerequisites and/or Corequisites:

None

Course Notes and Instructor Recommendations:

Each week, students are expected to read assigned chapters, complete discussion posts and other assessments. Since the course is totally constructed around online participation, the student should have knowledge of using a Web browser, computer, and e-mail: the ability to create and save documents; the ability to send and receive electronic documents; and a general understanding of online technologies and appropriate online behavior.

Students are expected to maintain regular and reliable access to a computer with a stable broadband Internet connection. If your computer is older than 4 years old, it may not have the processing power to work with Brightspace or current versions of the required software.

All MCC campus computers are configured to use Brightspace and will have most of the software needed to complete your online coursework. If additional software is needed on an MCC lab computer, please contact the administrator of the lab for assistance.

If your computer is publicly accessed off campus or is loaned to you, you may be prohibited from downloading files or software.

If a student is having difficulty accessing Brightspace or experiences technical issues, the Technology Help Desk should be contacted. <http://www.mclennan.edu/tech-support/>
Campus computers are available on campus if a student should need one to complete online work.

If Brightspace is down, please email the instructor to bring awareness to the problem. If Brightspace is down for more than 24 hours, the instructor will notify students via email with further instructions.

Instructor Name: Michelle Morphis

MCC E-mail: mmorphis@mclennan.edu

Office Phone Number: (254) 299-8584

Office Location: CSC, A-14

Office/Teacher Conference Hours:

Other office hours by appointment. Schedule with instructor.

Virtual Conference: You may request a virtual meeting by email. Zoom instructions can be found on Brightspace under “Instructor Information”

Required Text & Materials:

Title: Introduction to Radiologic Technology

Author: William Callaway

Edition: 8th

Publisher: Elsevier

ISBN: 978-0-323-64339-9

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

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/>

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources, we encourage you to contact a success coach by calling (254) 299-8226. Students can visit the Completion Center Monday-Friday from 8:00 a.m.-5:00 p.m. to meet with a success coach and receive additional resources and support to help reach academic and personal goals. Paulanne’s Pantry (MCC’s food pantry) is open 12:00 p.m.-1:00 p.m., Monday-Friday, without an appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

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 [here](https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf) (https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf).

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 contacted/notified through 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.

*** [Click Here for the Minimum System Requirements to Utilize MCC's D2L|Brightspace](https://www.mclennan.edu/center-for-teaching-and-learning/Faculty%20and%20Staff%20Commons/requirements.html)**
(<https://www.mclennan.edu/center-for-teaching-and-learning/Faculty%20and%20Staff%20Commons/requirements.html>)

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

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.

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 her/his 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.

Forwarding Emails:

You may forward the 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 become lost or placed in junk or spam filters.

Methods of Teaching and Learning:

This course is taught using discussions, videos, assignments, and exams to meet course objectives. Students will extend critical thinking through writing and engaging in peer discussion.

Course Objectives and/or Competencies:

Upon completion of this course students will:

Unit 01

- Understand radiography education to include the classroom and clinic learning (C02, C03, F01, F02)
- Contrast cognitive, psychomotor and affective learning (C02, C03, F01, F02)
- Understand and demonstrate quality customer service (C02, C03, F01, F02)
- Recognize requirements of becoming an outstanding student (C02, F01, F02, F03)
- Evaluate listening and reading skills (C02, F01, F02, F03)
- Apply critical thinking skills, be aware of values and explain consequences of actions taken (C02, C03, F01, F02, F03)
- Understand the history of medicine and analyze the evolution of healthcare delivery (C01, C03, C05, F02)
- Discuss ethical issues in healthcare
- Recall pioneers of radiology and differentiate among radiologic advances (C01, C03, C05, F02)

Unit 02

- Recall characteristics of different age groups(C03, F01, F02, F03)
- Understand diverse conditions and populations (C03, F01, F02, F03)
- Recall patient identification and procedures requested (C03, F01)
- Understand how to provide patient and transporter safety as a component of patient care and management (C02, C03, C04, F01, F02)
- Recall the purpose of isolation & aseptic techniques (C03, C04, F02)
- Demonstrate how to provide quality patient service (C02, F01, F03)
- Identify medical terminology and abbreviations (C01, C03, C05, F02)

Unit 03

- Recognize various components of imaging equipment (C01, C03, C04,C05, F02)
- Recall factors affecting the radiographic image (C01, C03, C05, F02)
- Evaluate radiographic image characteristics (C01, C03, C05, F02)
- Differentiate and discuss other imaging technology (C01, C03, C05, F02)
- Explain patient preparation for radiographic exams and differentiate among imaging examinations (C02, C03, F02, F03)
- Recognize different radiographic studies and fluoroscopic examinations (C01, C04, F07) (C01, C03, C05, F02)
- Recall the importance of radiation safety and understand radiation protective measures (C03, C04, C05, F01, F01)
- Recognize biologic effects of ionizing radiation (C01, C03, F02)
- Recognize radiation interactions with matter

Unit 04

- Evaluate ethics, professionalism, and law in radiologic technology (C02, C03, F01, F02)
- Understand effective communication (C02, C03, F01, F02)
- Recall legal terms in medicolegal considerations
- Recognize responsibilities of administration and staff (C03, C04, F01, F02)
- Comprehend safety in radiologic technology (C03, C04, C05, F01, F01)
- Understand the procedures and policy items (C03, C04, C05, F01, F01)
- Identify and understand factors which influence the economics of radiology (C03, C04, C05, F01, F01, F02)
- Recall quality assurance and understand various factors which influence an optimal rating of radiographic service (C03, C04, C05, F01, F01)
- Recall the roles of health professionals of allied health (C03, C04, F02, F03)

Unit 05

- Recall the purpose of the ARRT and understand general requirements of a radiographer candidate (C02, C03, F02)
- Discuss educational requirements and content specifications for the radiography examination (C03, F01, F02)
- Understand differences between ARRT Rules of Ethics and Code of Ethics
- Recall the details of continuing education (C03, F01, F02, F03)
- Understand the importance and purpose of professional associations (C03, F01, F02)
- Recognize areas of clinical specialization and the opportunity for career advancement (C02, C03, F01, F02)
- Discuss radiographer responsibilities (C01, C02, C03, C04, C05, F02)
- Recall practice standards and scope of practice of specialized areas (C01, C02, C03, C04, C05, F02)

SCANS Criteria

The Secretary's Commission for Achieving Necessary Skills (SCANS) is used with learning outcomes for this course.

SCANS LEGEND

1. Maximize resource allocations (C01)
2. Employ interpersonal skills (C02)
3. Use information skills (C03)
4. Use systems concepts (C04)
5. Use technology (C05)
6. Enhance basic skills (F01)
7. Apply thinking skills (F02)
8. Display appropriate personal qualities (F03)

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Course Outline or Schedule:

Unit	Chapters	Content
1	1-4	<ul style="list-style-type: none">• Radiography Education: From Classroom to Clinic• Becoming an Outstanding Student• Evolution of Health Care Delivery• Radiology: A Historic Perspective
2	5-7	<ul style="list-style-type: none">• Orientation to Patient Care• Providing Quality Patient Service• The Language of Medicine
3	8-10	<ul style="list-style-type: none">• The Technology of Medical Imaging• Radiographic Examinations: Diagnosing Disease and Injury• Radiation Safety and Protective Measures
4	11-13	<ul style="list-style-type: none">• Ethics, Professionalism, and Law in Radiologic Technology• Radiology Department: Organization and Operation• Health Professions
5	14-16	<ul style="list-style-type: none">• The American Registry of Radiologic Technologists• Professional Associations• Clinical Specialization and Career Advancement

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Week	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1		8/24		8/26	0.1 Response	8/28	
2	0.1 Replies	8/31		9/2	1.1 Response	9/04	
3	1.1 Replies	9/7 Labor Day	Unit 01 Assignment	9/09	1.2 Response	9/11	
4	1.2 Replies Unit 01 Exam	9/14		9/16	2.1 Response	9/18	
5	2.1 Replies	9/21		9/23	2.2 Response	9/25	
6	2.2 Replies	9/28	Unit 02 Assignment	09/30	2.3 Response	10/02	
7	2.3 Replies Unit 02 Exam	10/05		10/07	3.1 Response	10/09	
8	3.1 Replies	10/12		10/14	3.2 Response	10/16	
9	3.2 Replies	10/19	Unit 03 Assignment	10/21	3.3 Response	10/23	
10	3.3 Replies Unit 03 Exam	10/26		10/28	4.1 Response	10/30	
11	4.1 Replies	11/02		11/04	4.2 Response	11/06	
12	4.2 Replies	11/09	Unit 04 Assignment	11/11	4.3 Response	11/13	
13	4.3 Replies Unit 04 Exam	11/16		11/18	5.1 Response	11/20	
14	5.1 Replies	11/23		11/25	No Response Thanksgiving Holiday	Thanksgiving Holiday	Thanksgiving Holiday
15	No replies Thanksgiving Holiday	11/30	Unit 05 Assignment	12/02	5.2 Response	12/04	
16	5.2 Replies Unit 05 Exam Final Opens	12/07	FINAL EXAM 12/08@11:30 pm	12/09	Congratulations! The End!	12/11	

Course Grading Information:

	Assessment	Percentage of Course Grade
1	Assignments	20%
3	Exams	30%
4	Discussion	25%
5	Final Exam	25%
Total	Course Grade	100%

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

A “C” or higher is necessary for the Radiologic Technology program. This coincides with the grading scale in the Radiologic Technology Program.

Throughout the course, grades in Brightspace will indicate grades with a decimal following such as, 85.3, 89.5 etc....

These grades will remain as posted in the grade book but the final course grade will be rounded up or down to the nearest score depending on the number in the tenth place after the decimal. If a score is .5 to .9 the grade will be rounded up to the next number. If a score is .4 or below to .1, it will remain that number. (Example: 89.5 will be posted as a 90, where 89.4 will remain an 89)

Discussion Posts:

You will find that one response and two replies are expected with every discussion assignment. The responses are always due on Thursdays and the replies are due on the following Sunday. It is possible that you may only see one due date on the Brightspace Calendar for a discussion. However, it is important that you post by the due dates outlined in the **Calendar Due Dates** in the "Syllabus & Course Outline."

Thursday Response: 25 Points

Sunday Replies (2): 25 Points

Total Points Possible: 50 Points

- A rubric will be used for grading unless a student did not post on time
- See rubric on Brightspace
- Any late posts will receive 0 points.
- Students must complete both replies to be eligible for 25 points. One reply will result in zero points.

Exams: All exams will be given online via Brightspace. It is necessary that you have a stable internet connection and working technology. The exams are timed according to the number and content of the questions. If an exam is not started and finished on time, it may result in a zero. It is the responsibility of the student to maintain updates on their personal computers.

Brightspace Use and Activity

The instructor of this course intends to utilize Brightspace as a communication tool and for course features such as announcements, resources, grades, and assessments. It is the student's responsibility to check Brightspace daily to ensure successful completion of each assignment and to receive important announcements about the course.

Late Work, Attendance, and Make Up Work Policies:

Absence from the online class will result in the student having less information and will usually result in a lower grade. Absence of four (4) consecutive weeks will be taken as an indication that the student does not intend to complete the course and the student may be dropped from the class. Absence of 25% of classes may be taken as evidence in course activities to indicate a low probability of success. The student will be expected to access

this course via Brightspace and complete an assignment or discussion post weekly to prove absence for the week. Discussions are offered weekly and assignments are given periodically. At least one graded item must be completed each week to serve as the student being present in the course for the week.

Late assignments will be given a 10 point deduction on the first day missed and five points each day thereafter, with a maximum of 3 days. On the fourth (4th) day, the student will not be allowed to submit assignments and will be given zero (0) points for the missed assignment. Make-up tests will only be allowed under certain circumstances and is up to the discretion of the instructor. Medical documentation may be necessary to allow a make-up test. Any late discussion post will receive a zero. Discussions are used to facilitate engagement with the class over a specific topic. Late posts will not allow other students to respond, resulting in zero engagement. Therefore, no makeup discussion posts will be allowed in this course.

Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain online decorum that includes respect for other students and the instructor, checking assessment due dates regularly, and an attitude that seeks to take full advantage of the education opportunity. Each occurrence will be documented and may result in counseling from the instructor and/or other administrative persons. Online student are expected to access the course at least twice a week.

Electronic Communication Policy

This policy applies to all students enrolled at McLennan Community College (MCC) and to all MCC employees. All students, staff, and faculty will use their official college e-mail addresses when conducting college business.

It is MCC's policy to assign all students, upon registration, an official e-mail address, which may remain in effect up to twelve months after students are no longer enrolled at MCC.

MCC student e-mail addresses will be the only e-mail authorized to communicate official college information or business. Students are expected to read and, if needed, respond in a timely manner to college e-mails. It is suggested that students check college e-mail daily to avoid missing time-sensitive or important college messages. Students may forward college e-mails to alternate e-mail addresses; however, MCC will not be held responsible for e-mails forwarded to alternate addresses. A student's failure to receive or read official communications sent to the student's assigned e-mail address in a timely manner does not absolve the student from knowing and complying with the content of the official communication.

*** [Click Here for the MCC Academic Integrity Statement](#)**

(www.mclennan.edu/academic-integrity)

The link above will provide you with information about academic integrity, dishonesty, and cheating.

*** [Click Here for the MCC Attendance/Absences Policy](#)**

(<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 guidelines specific to this course.

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. Instructors should not provide accommodations unless approved by the Accommodations Coordinator. For additional information, please visit mclennan.edu/disability.

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

disabilities@mclennan.edu

254-299-8122

Room 319, Student Services Center

*** [Click Here for more information about Title IX](#)**

(www.mclennan.edu/titleix)

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 or by calling Dr. Drew Canham (Vice President for Student Success) at 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC by calling 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting the following website: <http://www.lighthouse-services.com/mclennan/>.

McLennan's Title IX webpage (<http://www.mclennan.edu/titleix/>) 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.

** You will need to access each link separately through your Web browser (for example: Internet Explorer, Mozilla, Chrome, or Safari) to print each link's information.*