

WACO, TEXAS

AND INSTRUCTOR PLAN

Advanced Radiographic Procedures

RADR 2331.80

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

NOTE: This is an 8-week course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html on any changes to these guidelines.

COURSE NUMBER & SECTION NUMBER

Course Description:

Positioning and alignment of anatomic structures and equipment, evaluation of images for demonstration of anatomy and related pathology, and an exploration of specialized imaging modalities. Semester Hours 3 (3 lec/1 lab)

Prerequisites and/or Corequisites:

Prerequisites: Successful completion of previous RADR courses with a minimum grade of C orbetter.

Course Notes and Instructor Recommendations:

This course is taught via face-to-face. We will use the textbooks, handouts, 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.

Covid alterations (if needed): Due to the Covid-19 pandemic, this course could likely be converted to hybrid or completely online using various options of delivery such asynchonous 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: Meredith R. Brown BSHS, MS, RT (R)

MCC E-mail: mbrown@mclennan.edu

Phone Number: 254-299-8342 Office Location: CSC 202

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.

Required Text & Materials:

Title: Textbook of Radiographic Positioning and Related

Anatomy

Author: Kenneth L. Bontrager/ John P. Lampignano

Edition: 9th Publisher: Mosby

ISBN-13: 978-0-323-39966-1

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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:

The student will be able to describe the various specialized imaging modalities; perform advanced diagnostic procedures, and analyze radiographic images to distinguish between acceptable and optimal quality.

UNIT OBJECTIVES

Guidelines for Image Analysis

- 1) State the characteristics of an optimal projection.
- 2) Properly display projections of all body structures.
- 3) State how the patient is associated with the projections and explain what to do if there is a missassociation.
- 4) Discuss how to mark projections accurately and explain the procedure to be followed if a projection has been mismarked or the marker is only faintly seen.
- 5) Discuss why good collimation practices are necessary and list the guidelines to follow to ensure good collimation
- 6) Describe how positioning of anatomic structures in reference to the central ray (CR) and image receptor (IR) affects how they are visualized on the resulting projection.
- 7) State how similarly appearing structures can be identified on projections.
- 8) Determine the mount of patient or CR adjustments required when poorly positioned projections are obtained.
- 9) Discuss the factors that affect the spatial resolution in a projection.
- 10) Describe the radiation protection practices that are followed to limit patient and personnel dose and discuss how to identify whether the concept of ALARA was taken into consideration.

Image Analysis of the Chest and Abdomen

- 1) Identify the required anatomy on all chest and abdominal projections
- 2) State the technical data used in chest and abdominal projections
- 3) List the image analysis guidelines for accurately positioned adults and pediatric chest and abdominal projections.

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- 4) State how to reposition the patient when chest and abdominal projection with poor positioning are produced.
- 5) Discuss how to determine the amount of patient or CR adjustment required to improve poor positioning on chest and abdominal projections.
- 6) State how pathological conditions are affected by improper positioning
- 7) State the purpose and proper location of internal devices, lines, tubes, and catheters are demonstrated on chest and abdominal images.
- 8) Discuss various postioning adjustments necessary due to gender of the patient, growth and development of neonates, and various pathologies.

Image Analysis of the Upper Extremity, and Shoulder

- 1) Identify the required anatomy on all upper extremity and shoulder area projections
- 2) State the technical data used in upper extremity and shoulder area projections
- 3) List the image analysis guidelines for accurately positioned upper extremity and shoulder projections.
- 4) State how to reposition the patient when upper extremity and shoulder area projection with poor positioning are produced.
- 5) Discuss how to determine the amount of patient or CR adjustment required to improve poor positioning on upper extremity and shoulder area projections.
- 6) State the kilovoltage (KV) routinely used for upper extremity projections and describe which anatomic structures will be visible when the correct technical factors are used.
- 7) Explain how the wrist and elbow rotations affect the position of specific anatomic structures/landmarks; and
- 8) Discuss how the patients body habitus and muscularity or thickness can require specific adjustments to positioning.
- 9) Understand the changes in the carpal bones when the wrist is extended, deviated, or ulnar- and radial-deviated in the PA and lateral projections
- 10) State why rotating the body part might cause additional harm or issues for the patient if a fracture is suspected; especially the humerus.

Image Analysis of the Lower Extemity, Pelvis, and Hip

- 1) Identify the required anatomy on all lower extremity, pelvis and hip projections
- 2) State the technical data used in lower extremity, pelvis and hip projections
- 3) List the image analysis guidelines for accurately positioned lower extremity, pelvis and hip projections
- 4) State how to reposition the patient when lower extremity, pelvis and hip projections

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- projection with poor positioning are produced.
- 5) Discuss how to determine the amount of patient or CR adjustment required to improve poor positioning on lower extremity, pelvis and hip projections
- 6) State the kilovoltage (KV) routinely used for lower extremity projections describe which anatomic structures will be visible when the correct technical factors are used.
- 7) Discuss how the patients body habitus, muscularity or thickness, gender, arch or the foot, and other individual characteristics can require specific adjustments to positioning.
- 8) State why rotating the body part might cause additional harm or issues for the patient if a fracture is suspected; especially the femur.

Image Analysis of the Spine

- 1) Identify the required anatomy on all spine, sacrum, and coccyx projections.
- 2) State the technical data used in spine, sacrum, and coccyx projections
- 3) List the image analysis guidelines for accurately positioned spine, sacrum, and coccyx projections
- 4) State how to reposition the patient when spine, sacrum, and coccyx projection with poor positioning are produced.
- 5) Discuss how to determine the amount of patient or CR adjustment required to improve poor positioning on spine, sacrum, and coccyx projections
- 6) Discuss the various curvatures of the spine regions and explain the intervertebral disk spaces slant.
- 7) Understand the importance of specific breathing techniques for some areas of the spine.
- 8) Discuss options on how to achieve uniform image density when body part thickness change.

Image Analysis of the Cranium

- 1) Identify the required anatomy on all cranium projections.
- 2) State the technical data used in cranium projections
- 3) List the image analysis guidelines for accurately positioned cranium projections
- 4) State how to reposition the patient when cranium projection with poor positioning are produced.
- 5) Discuss how to determine the amount of patient or CR adjustment required to improve poor positioning on cranium projections
- 6) Define and state the common abbreviations used for the cranial positioning lines.
- 7) Explain how the patient and CR are positioned to demonstrate accurate air-fluid levels in the sinus cavities.

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Special Radiographic Procedures

Includes:

- Arthrography.
- Myelography
- Orthoroentgenography
- Biliary Procedures
- Hystérosalpingography
- Sialography
- Conventional Tomography

After completion of this unit, the student will be able to:

- 1. State the purpose of additional diagnostic procedures.
- 2. Identify indications and contraindications for diagnostic procedures.
- 3. Identify necessary equipment and supplies.
- 4. Describe patient preparation protocols.
- 5. Describe fluoroscopic and radiographic positioning protocols.

Additioal Diagnostic/Theurapeutic Modalities

Includes:

- Mammography
- Bone Densitometry
- Nuclear Medicine
- Positron Emission Tomography
- Radiation Oncology
- Sonography
- Magnetic Resonance Imaging

After completion of this unit, the student will be able to:

- 1. Define terms used in conjunction with the procedures.
- 2. Identify clinical applications of and protocols for the procedures.
- 3. Identify the basic structures of the breast.
- 4. Differentiate among key types of pathologic conditions of the breast.
- 5. Determine which projections or positions will best demonstrate the structures of the breast.
- 6. Identify osteopenia and osteoporosis classifications and treatment options.

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- 7. Compare the functionality of various scanners used for bone densitometry.
- 8. Describe procedural considerations for DXA such as positioning, accuracy, and precision
- 9. Describe basic principles of Nuclear Medicine.
- 10. Identify Nuclear imaging equipment and various clinical applications.
- 11. Define basic Nuclear Medicine terminology.
- 12. Describe basic principles of PET scanning technique.
- 13. Understand and describe various Radiation Therapy applications.
- 14. Recite the historical development of ultrasonography.
- 15. Recall the theory and methodology of ultrasound imaging.
- 16. Describe the clinical applications.
- 17. List the patient preparations required for the common ultrasound procedures.
- 18. Describe basic principles of MRI.
- 19. Compare the types of magnets commonly used in MRI.
- 20. Identify indications and contraindications of MRI.
- 21. Describe basic safety considerations for MRI.

Trauma, Mobile, and Surgical Radiography

After completion of this unit, the student will be able to:

- 1. Differentiate among key types of traumatic injuries.
- 2. Demonstrate familiarity with the manipulation and operation of equipment used fortrauma, mobile, and surgical radiography.
- 3. Appropriately modify projections and positions to accommodate compromised patientmobility.
- 4. Follow the principles of surgical asepsis and radiation protection.

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Pediatric Radiography

After completion of this unit, the student will be able to:

- 1. Identify the basic radiographic principles related to pediatric radiography.
- 2. Differentiate among key types of pathology.
- 3. Describe typical patient, contrast media, and procedural preparation protocols forpediatric radiography.
- 4. Identify techniques to maintain physical and radiation safety of the patient.

Course Outline or Schedule:

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The following is a guide for this course. The instructor may adjust the schedule but will do so in atimely manner. An announcement will be made on Brightspace should a change occur.

RADR 2331						
Advanced	Advanced					
Radiographic	Radiographic					
Procedures						
Spring 2022 Schedule The Instructor reserves the right to deviate from this schedule will make every effort to provide advanced notification to the student.						
Date		Торіс				
Week 1						
11-	-Jan-22	Syllabus, Course schedule		Watch PodCast Lectures Online		
13	-Jan-22	Guidelines for Image Analysis		Image Analyis Practical/ Procedures Lab		
Week 2	-5411-22	Andrysis		ri oceddi es Lab		
Week 2 18-Jan-22		Chest and Abdomen		Watch PodCast Lectures Online Image Analyis		
	20-Jan-22 Sternum and Ribs			Practical/ Procedures Lab		
Week 3						

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25-Jan-22	\bigvee	Upper Extremity and Shoulder		Watch PodCast Lectures Online Image Analyis
27-Jan-22		Lower Ext, Pelvis, Hip, and SI		Practical/ Procedures Lab
Week 4 1-Feb-22 3-Feb-22		Pelvis, Hip and Si Cont'd C, T and L Spine, and Sacral and Coccygeal Vertebrae		Watch PodCast Lectures Online Image Analyis Practical/ Procedures Lab
Week 5	Cranium, Facial Bones, and Parnasal Sinuses			
8-Feb-22		Special Radiographic Procedures (Arthrograms, Biliary Duct, HSGs, Myelography, etc)		Ch 19 - Bontrager Online Exam - Ch 19
10-Feb-22		Additional Diagnostic/Therapuetic Modalities (Mammo, BD, Nuc Med, PET, Rad Oncology, Ultrasound,		Ch 20 Bontrager Online Exam - Ch
Week 6	$\langle \rangle$	and MRI)		20
15-Feb-22		Trauma, Mobile, and Surgical		Ch 15 and 16 Bontrager
17-Feb-22	X	Pediatric		Online Exam (Ch 15 & 16)
Week 7				
		****Image Analysis - Mini Mock/Film val ****		
Week 8	X	CT Group Project		Final Exam Project
1-Mar-22	\bigwedge	Presentations		Grade

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X			
X	Spring Break		Be safe & have fun!
X			

Course Grading Information:

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

TASK

PERCENTAGE OF COURSE GRADE

1.	Weekly Assignments/Quizzes, etc	25%
2.	Lab Activities/Participation	25%
3	Chapter Exams / Image Evaluation Exam	30%
4.	Grp Project Presentations (Final Exam)	<u>20%</u>

100%

The course grade will be applied to the following scale:

90% - 100%	A	
80% - 89%	В	
75% - 79%	C	REMEMBER: This is an RT course
60% - 74%	D	C is the minimum acceptable grade.
59% or less	F	

All course grades will be applied to the following scale and will be rounded up to the nearestwhole 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:

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- 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 fivepoints everyday thereafter. This is only accountable on business days.

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 allcourse material and competencies to be successful.

Therefore, the program has established a performance goal for all coursework and assessmentsin 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 anycourse 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.

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**Remediation assignments MUST BE submitted prior to the next Unit exam or a 5 point penalty will be assessed to the Unit quiz or 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 8:30am 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 8:30am and the student will be denied access until the firstbreak of the class which is usually at 50 minutes after the beginning of class. Students will be allowed totake 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 classroomon 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

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, 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 asthe 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 Collegeemail. 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 inthis course. If a unit exam is missed, the comprehensive final grade will be used for the missing exam

grade. This will be done only once per semester. (Exception: See 'Online Quizzes and Testing Policy' below). Subsequent missed exams will receive a grade of zero. If an in-class pop quiz is missed for anunexcused 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

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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.

Smoking Cessation

Electronic Vapor Products Use of electronic smoking cessation devices are prohibited in the classroomor 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 useof 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)

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



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.

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

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 or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting http://www.lighthouse-services.com/mclennan/.

Go to McLennan's Title IX webpage at 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/

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 a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry 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 at https://www.mclennan.edu/foundation/docs/Emergencygrant Application.pdf.

MCC Academic Integrity Statement:

Go to <u>www.mclennan.edu/academic-integrity</u> for information about academic integrity, dishonesty, and cheating.

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.

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 for help.

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.

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.