

CF TECHNOLOGY

RADIOGRAPHIC TECHNOLOGY SEMINAR (RADR 2335 – 1A1)

INSTRUCTOR CONTACT INFORMATION

Instructor: Brenda A. Barrow, M.Ed., R.T.

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Office Phone: 409-241-9829

Office Location: 232 Multipurpose Center

Office Hours: office hours posted outside door and in Starfish

CREDIT

3 Semester Credit Hours (3 hours lecture, 0 hours lab)

MODE OF INSTRUCTION

This course will be taught with hybrid delivery. Tests will be administered on campus in a computer lab. This simulates how the ARRT Registry exam will be administered. This course will be delivered in a hybrid format utilizing Black Board LMS. The on-campus class is scheduled on Monday, however, there will occasionally be events and classes that the student will be required to attend on campus on Wednesdays.

PREREQUISITE/CO-REQUISITE:

RADR 2305 Principles of Radiographic Imaging II

COURSE DESCRIPTION

A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

- A. Demonstrate entry level proficiency in knowledge, skills, and attitudes necessary for professional employment
- B. Articulate the need for lifelong learning
- C. Utilize knowledge, skills, and attitudes to demonstrate entry level proficiency for professional employment
- D. Understand the importance of continuing education
- E. Be aware of the recommended techniques and skills associated with test taking
- F. Be aware of individual areas of weakness in the four areas covered (Patient Care, Safety, Image Production, Procedures)
- G. Be prepared both mentally and psychologically to take the ARRT National Registry Examination for Radiologic Technologists

- H. Be comfortable in taking computer generated tests
- I. Submit applications for ARRT national Registry exam and TMB Texas license (or license from another state if moving post-graduation)

REQUIRED TEXTBOOK AND MATERIALS

- All previous radiology program textbooks.
- Clover Learning Student Platform Online Radiography Prep Website
- ASRT Radiography Roadmap Prep course
- A computer with internet access. The computer must be able to run current programs and platforms such as Windows 10 and the internet must be reliable and robust. The course has an online component and will move to a fully online format if necessary. The computer must have a camera and microphone for online conferencing.

CAPSTONE COURSE:

This is the capstone course for the Radiologic Technology program. The student will have to meet certain requirements for completion:

- 1. score at least a 77 in the course (RADR2335)
- 2. score an 80% or above on internet based 200? Mock ARRT Registry Review Exam Clover Learning Student Platform (online Registry prep course)
- 3. Complete ASRT Radiography Roadmap

COURSE REQUIREMENTS/ASSIGNMENTS:

- 1. All students will take a 215-question **pre-test** to access their current knowledge. This grade will *not* count toward the final course grade.
- 2. Students will submit 35 questions from the unit categories. *Five questions from each area*: Positioning, Anatomy, General Technique, Digital Imaging, Physics/Equipment, Patient Care, Radiation Protection/Biology. Questions shall be short answer. No matching, true/false, multiple choice, or discussion type questions will be accepted. Questions shall be typed or printed legibly on 3 X 5-inch note cards, one question per note card. The card shall include question, underlined answer, reference book and page number, student's initials, and subject of card. (REGISTRY REVIEW BOOKS OR STUDY GUIDES ARE NOT ACCEPTABLE REFERENCE BOOKS.) This will assess the students writing skills.
 - Students who have duplication over 40% (16 questions) of another student will receive a deduction of 10 POINTS from their category test score. 2 POINTS will be deducted from the cumulative points for each class the cards are late.
- 3. Cumulative points will be awarded for prep-bowl, TSRT Convention, and other opportunities during the semester as they arise. Also points may be deducted from the cumulative points for failure to turn in assignments on time or absence on prep-bowl days (see rules). <u>CUMLATIVE</u> <u>POINTS:</u> PENALTY POINTS and EXTRA POINTS will be added to the total category test score (before averaging).

- 4. Students will participate as a team in a "Prep Bowl" style competition. This will help build self-esteem. Read the attached rules. Students can gain extra points by winning rounds of the Prep Bowl competition.
 - Missing or being late for the assigned time to play will result in a loss of **5 POINTS** from the student's Cumulative Points for each time late or missed.
- 5. Assignments will be made in BlackBoard from the Mosby's Comprehensive Review of Radiography Workbook. These will be pass/fail.
 - Failure to complete the assignment by the required date will result in a deduction of **5** points from the cumulative points.
- 6. Students will create and submit a *resume*.
 - Failure to complete the assignment by the required date will result in a deduction of 5 points from the cumulative points.
- 7. Complete the review outline in the <u>ARRT Certification Handbook</u> for each corresponding test section.
 - ❖ Failure to turn in the review on time will result in a deduction of **5 POINTS** from their cumulative points <u>per class</u> it is late.
- 8. Each student will complete assignments from <u>Radiography Roadmap by ASRT</u>. These will be submitted in BlackBoard. The SEAL tests will be retaken until student has a score of 80% or higher.
 - Failure to turn in the assignment on time will result in a deduction of **5 POINTS** from their cumulative points **per class** it is late.
- 9. Each student will be required to take an online exam in <u>Clover Learning Student Platform</u> for each section discussed (patient care, safety, procedures, image production and radiation safety). Each exam will be **100 questions**. The student will take the exams online until they score at least an **80%**. The certificate with score should be submitted in Blackboard by the dates listed in this syllabus.
 - Failure to turn in the test on time will result in a deduction of **5 POINTS** from their cumulative points **per class** it is late. If the student has not passed the online test they should submit their current score each week to show that they are working on it. This teaches the student self-management and responsibility.
- 10. ARRT Mock exam in <u>Clover Learning Student Platform</u> will include all sections. It will be **200** questions. This is a timed 210-minute exam. Students not scoring an **80**% by the end of the semester will not be eligible for the final exam and will be given an incomplete (I) in the course and will not be allowed to graduate. Those receiving an incomplete (I) will not be allowed to take the Registry until such time that successful remediation is completed.

FEES will be paid online to the requiring agency: (fees are subject to change)

- \$225 American Registry Radiologic Technologist (national exam)
- \$80 Texas Medical Board General Radiologic Technology (state MRT license)
- \$38.50 Fingerprinting for state license
- \$34 Jurisprudence exam for state license
- Graduation fees (diploma, cap, gown)

ATTENDANCE and COURSE POLICIES:

- No food, drinks, or use of tobacco products in class.
- Phones, headphones, and any other electronic devices must be turned off while in class.
- Recording devices may be used except during test reviews and when otherwise stated by the instructor.
- Lap top computers, I-pad... may be used to take notes during class but may <u>not</u> be used to "surf" the internet, look-up answers, nor anything not directly related to note taking.
- It shall be considered a breach of academic integrity (cheating) to use or possess on your body any of the following devices during any examination unless it is required for that examination and approved by the instructor: Cell phone, smart watch/watch phone, laptop, tablet, electronic communication devices (including optical), and earphones connected to or used as electronic communication devices.
 - This is a violation of the Radiologic Technology Student Handbook and will result in dismissal from the program.

Students with special needs and/or medical emergencies or situations should communicate with their instructor regarding individual exceptions/provisions. It is the student's responsibility to communicate such needs to the instructor.

- Do not bring children to class.
- If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
- Attendance Policy: Class attendance is important to ensure that a student receives the knowledge and skills necessary to be successful in the Radiologic Technology program. Students are expected to be in class on time. If a student is tardy they may enter only if they do so quietly.
 - When it becomes necessary to miss a session, it is the responsibility of the *student* to contact the instructor and to inquire about assignments. The student must get the notes from a classmate. If a major test is missed, the test will be administered at the first day the student returns to class or at a time designated by the instructor. There will be a **ten** (10) point reduction for make-up exams.
- Any student who fails to pass a Unit test will be required to attend mandatory tutorial.
 This may be done before or after class or at lunch break. The tutorial may be individual or in a group session.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the <u>Academic Calendar</u>. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

GRADING SCALE

A = 93 - 100 B = 84 - 92 C = 77 - 83 D = 60 - 76 F = 0 - 59

COURSE EVALUATION:

Grades will be determined in the following manner:

(5) MAJOR CATEGORY TESTS and CUMLATIVE EXTRA POINTS
 200? COMPREHENSIVE FINAL

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty.

ADDITIONAL COURSE POLICIES/INFORMATION COURSE OUTLINE:

By the end of the semester the student will:

- 1. Develop a resume
- 2. List important steps to a good job interview
- 3. Discuss test taking tips and study skills
- 4. The student will know their weak areas in radiology from scores on pre-test
- 5. Prepare questions for "Prep Bowl" Competition in their weakest areas.
- 6. Complete four (4) 100 question RadTechBootCamp web-based exams with an 80% or higher
 - a. Patient Care
 - b. Safety & Radiation Protection
 - c. Procedures
 - d. Image Production
- 7. Complete the ASRT Radiography Roadmap assignments and SEAL tests scoring **80% or higher.**
- 8. Compete in "Prep Bowl" type competition
 - a. Safety

^{*} A minimum of 77% is required for successful completion of this course! LIT does not use +/- grading scales

- b. Image Production
- c. Procedures
- d. Patient Care
- e. Radiation Protection
- 8. Review the following areas using skills required in the objectives of each course
 - A. Image Production RADR 1313, RADR 2305, and RADR 2333
 - B. Procedures RADR 1411 & RADR 2401
 - C. Safety RADR 2309
 - D. Patient Care HPRS 1204 & RADR 1203
 - E. Radiation Biology & Protection RADR 2313
- 9. Apply for Texas Medical Board- Medical Radiologic Technologists License or state(s) of your choice.
- 10. Apply to take the American Registry Radiologic Technologists national registry exam.

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Specialpopulations@lit.edu. You may also visit the online resource at Specialpopulations—lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give

praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

COURSE CALENDAR 8:00 – 9:30 Mondays (class days will switch to Wednesdays some weeks)

DATE	FACE-TO-FACE	HYBRID	REMEDIATION/ASSIGNMENT
Jan 15	MLK no class	Jan 17	Introduction to Course 215? Pre-Test (grade does not count)
Jan 22	ARRT Application and videos	Jan 24	Test tips video Registry Prep Assignment
Jan 29	Patient Care Prep Bowl Cards Due	Jan 31	Pt Care video 4 month ASRT Roadmap and SEAL #1 test due
Feb 5	Patient Care Test 100? Pt Care BootCamp due ARRT outline due	Feb 7	Start process of applying for TMB and ARRT Remediation Patient Care
Feb 12	Review Pt Care test & Procedures Prep Bowl	Feb 14	Procedures video
Feb 19	Procedures Test 100? Procedures BootCamp due ARRT outline due	Feb 21	Resume Writing video Remediate Procedures/Positioning
Feb 26	Review Procedures test Radiation Protection Prep Bowl	Feb 28	Rad Protection video 3 month ASRT Roadmap and SEAL #2 test due
Mar 4 no class	FINAL RADR 2313	Mar 6	Interviewing Video Career Path Assignment
Mar 18 virtual	100? Rad Bio BootCamp due ARRT outline due Resume due	Mar 20 Face- to-face	Radiation Protection Test
Mar 25	Review over Rad. Protection Test & Safety/Equipment (physics) prep bowl	Mar 27	Remediate Radiation Protection Safety/Equipment (physics) video 2 month ASRT Roadmap and SEAL #3 test due
Apr 1 no class	KETTERING - Galveston	Apr 3 Face- to-face	Safety/Equipment (physics) Test 100? Safety/Equipment BootCamp due ARRT outline due
Apr 8	Review Safety/Equipment (physics) test & Image Production/Digital Prep Bowl	Apr 10	Image Production & Digital Imaging videos Remediate Equipment
Apr 15	Image Production/Digital Test	Apr 17	Remediate Image Production/Technique & Digital 1 month ASRT Roadmap and SEAL #4 test due

	100? Image Production BootCamp due ARRT outline due		
Apr 22	Review over Image Production/Digital Test & Grand Champion Prep Bowl	Apr 24	200? Comprehensive BootCamp due
Apr 29 virtual	Study for final	May 1 Face- to-face	FINAL Exam
May 6	Review over Final	May 9	GRADUATION

RADIOLOGY "PREP BOWL" RULES

A. Preparation

- 1. Teams will consist of three or four people as originally assigned.
- 2. Attendance is critical. If a player is late or absent the team will continue to play.
 - A. If the team wins the member(s) present will receive the points (2) but will **not** advance to the play-off round. Instead the team with the next highest points will advance.
 - B. Those team members that are late or absent will have **five points** deducted from their cumulative points.
- 3. The judges will be Mrs. Barrow and/or her designate.
- 4. One of the judges will read the questions aloud and the other will keep score.

B. Play

- 1. The question will be read aloud.
- 2. The teams will have **20 seconds** to respond, after the completion of the reading of the question.
- 3. Any team member can hit the buzzer during or at the conclusion of the reading of the question.
- 4. Once the buzzer sounds, the reading of the question will stop.
- 5. The reader will call on the person who buzzed in for a response and he or she will have **20 seconds** for a response.
- 6. Team members can help or confer with the person answering the question.
- 7. If the judges hear or see any collaboration from the audience the question will be thrown out.
- 8. If the question is answered correctly the team receives **1 point**.
- 9. If the question is answered incorrectly **1 point** will be deducted and the other team will have the question reread and given **20 seconds** to respond. This team may confer upon the answer.
- 10. If the question is answered correctly the team will receive **1 point** and if answered incorrectly **1 point** will be deducted. The team may pass on the question and no points will be deducted. A new question will then be read and play will continue.
- 11. At the end of **15 minutes** a buzzer will sound, signaling the end of the game. If a question is being read during this time it will be completed and teams allowed to answer.
- 12. If teams are tied at the end of 15 minutes, there will continue until there is a 2-point difference in the score.

RADIOLOGY BOWL

TEAMS

TEAM "A"	ТЕАМ "В"
Sarah Dishman	Erika Gutierrez
Rachel Johnson	Kourtney James
Britney Wilson	Cassidy Jones
	Lorena Morosin
TEAM "C"	TEAM "D"
Kandis Lejune	Brooke Perkins
Hayden Powell	Alex Romero
Brionna Trapp	Anaya Zachary
TEAM "E"	TEAM "F"
Harley Davis	Julia Bellot
Heather Mineer	Esmeralda Guevara
Jaden Washington	Tori Ramour
TEAM "G"	TEAM "H"
Kayla Bayardo	Liz Bolyard
Krystal Bonet	Blanca Luna-Torres
Sumer Ramirez	Sydney Monceaux

Brooke Stewart

SCHEDULE OF PLAY

PATIENT CARE

January 29

8:10 to 8:25 8:35 to 8:50

TEAM A, TEAM B, TEAM C, TEAM D TEAM E, TEAM F, TEAM G, TEAM H

WINNER (2pts) WINNER (2pts)

9:00 to 9:15

WINNER (2pts)

RADIOGRAPHIC PROCEDURES (POSITIONING & ANATOMY)

February 12

8:10 to 8:25 8:35 to 8:50

TEAM B, TEAM C, TEAM D, TEAM E TEAM F, TEAM G, TEAM A, TEAM H

WINNER (2pts) WINNER (2pts)

9:00 to 9:15

WINNER (2pts)

RADIATION PROTECTION

February 26

8:10 to 8:25 8:35 to 8:50

TEAM C, TEAM D, TEAM E, TEAM F TEAM G, TEAM A, TEAM B, TEAM H

WINNER (2pts) WINNER (2pts)

9:00 to 9:15

WINNER (2pts)

SAFETY (EQUIPMENT AND RADIATION PROTECTION)

March 25

8:10 to 8:25 8:35 to 8:50

TEAM E, TEAM F, TEAM G, TEAM H TEAM A, TEAM B, TEAM C, TEAM D

WINNER (2pts) WINNER (2pts)

9:00 to 9:15

WINNER (2pts)

IMAGE PRODUCTION

(TECHNIQUE & DIGITAL)

APRIL 8

8:10 to 8:25

8:35 to 8:50

TEAM E, TEAM F, TEAM G, TEAM H
WINNER (2pts)

TEAM A, TEAM B, TEAM C, TEAM D
WINNER (2pts)

9:00 to 9:15

WINNER (2pts)

REVIEW - ALL CATEGORIES -- FINALS

APRIL 22 (20 MIN. ROUND)

8:10 to 8:25

8:35 to 8:50

TEAM E, TEAM F, TEAM G, TEAM H

TEAM A, TEAM B, TEAM C, TEAM D

WINNER (2pts)

WINNER (2pts)

9:00 to 9:15

WINNER (2pts)