RADIOGRAPHIC TECHNOLOGY SEMINAR (RADR 2335 – 1A1)

LAMAR INSTITUTE OF TECHNOLOGY

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 Wednesday, however, there will occasionally be events and classes that the student will be required to attend on campus on Mondays.

PREREQUISITE

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)

INSTRUCTOR CONTACT INFORMATION

Instructor:	Brenda A. Barrow, M.Ed., R.T.
Email:	babarrow@lit.edu
Office Phone:	409-241-9829
Office Location:	232 Multipurpose Center

Office Hours: office hours posted outside door and in Starfish

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.
- Assignments will be made in Mosby Comprehensive Radiography Review Workbook. I recommend either purchasing this review book or the Appleton Lange Review Book.
- Students will attend a two-day Kettering Radiography Review workshop

ATTENDANCE

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 is responsible for getting 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. **Ten points** deduction for make-up exams unless previously approved by the instructor for extenuating circumstance.

To encourage class attendance, students that miss two (2) or more class sessions in a unit will have a five (5) point reduction on that test. Students who are tardy four (4) times will equal one (1) absence.

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 Academic Calendar. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR 8:00 – 9:15 Wednesdays (class days will switch to Mondays some weeks)

DATE	***Monday Hybrid***	***DATE***	***Wednesday face-to-face***
Jan 19	MLK no class	***Jan 21***	Introduction to Course & ARRT Application and videos
Jan 26	215? Pre-Test (grade does not count) Test tips video	***Jan 28***	Patient Care Prep Bowl Cards Due
Feb 2	Pt Care video Registry Prep Assignment due	***Feb 4***	Rad Biology lectures

Feb 9	4-month ASRT Roadmap and SEAL #1 test due	***Feb 11***	Patient Care Test 100? Pt Care Clover Learning due & ARRT outline due
Feb 16	Interviewing Video	***Feb 18***	Procedures Prep Bowl & Review Pt Care test & Start process of applying for TMB and ARRT
Feb 23	Procedures video	***Feb 25***	Procedures Test 100? Procedures Clover Learning due & ARRT outline due
Mar 2	3 month ASRT Roadmap and SEAL #2 test due & Resume Writing video	***Mar 4***	Review Procedures test & Rad Biology lectures
Mar 9	SPRING BREAK	*Mar 11*	SPRING BREAK
Mar 16	Resume due	***Mar 18***	Safety/Equipment (physics) prep bowl
Mar 23	Safety/Equipment (physics) video	***Mar 25***	Safety/Equipment (physics) Test 100? Safety/Equipment Clover Learning due & ARRT outline due
Mar 30	Rad Protection video Career Path Assignment	***Apr 1***	Review Safety/Equipment (physics) test & Radiation Protection Prep Bowl
Apr 6	2 month ASRT Roadmap and SEAL #3 test due	***Apr 8***	Radiation Protection Test 100? Rad Bio Clover Learning due & ARRT outline due
Apr 13	Image Production & Digital Imaging videos	***Apr 15***	Review over Rad. Protection Test & Image Production/Digital Prep Bowl
Apr 20/21	KETTERING on LIT campus	***Apr 22***	Image Production/Digital Test 100? Image Production Clover due & ARRT outline due
Apr 27	1 month ASRT Roadmap and SEAL #4 test due 200? Comprehensive Clover Learning due	***Apr 29***	Review over Image Production / Digital Test & Grand Champion Prep Bowl
May 4	STUDY	***May 6***	FINAL Exam
May 11	Review Final in Mrs. B office	***May 19***	***GRADUATION***

COURSE EVALUATION:

Grades will be determined in the following manner:

1. (5) MAJOR CATEGORY TESTS and CUMLATIVE EXTRA POINTS 50%
2. 200? COMPREHENSIVE FINAL 50%

GRADING SCALE

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

* A minimum of 77% is required for successful completion of this course!

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 Special Populations - 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.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

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.

ADDITIONAL COURSE POLICIES/INFORMATION

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 questions, underlined answers, reference book and page number, student's initials, and subject of card. **(REGISTRY REVIEW BOOKS, CLOVER LEARNING 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 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). ***CUMLATIVE POINTS:*** *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 ***ARRT Certification Handbook*** 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 per class it is late.*

8. Each student will complete assignments from ***Radiography Roadmap by ASRT***. 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 ***Clover Learning Student Platform*** 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 ***Clover Learning Student Platform*** 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.

11. Students will attend a two-day ***Kettering Radiography Review Workshop***. This will be partially paid from RTSO funds depending on the students' participation points. Any other expense is expected to be paid by the student.

12. There will be multiple ***Discussion Board*** assignments that will be posted to add to cumulative points.

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)

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 not 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.

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.

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 five (5) 100 question Clover Learning Student Platform web-based exams with an **80% or higher**
    a. Patient Care
    b. Safety
    c. Radiation Protection
    d. Procedures
    e. 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
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.