



**LAMAR INSTITUTE
OF TECHNOLOGY**

Clinical II Radiologic Technology-RADR 1361-7A1

INSTRUCTOR CONTACT INFORMATION

Instructor: Sheryl A. Nance
Multiple instructors assigned to clinical facilities

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Office Phone: 409.247.5093

Office Location: Multi-Purpose Center, Office 229

Office Hours: By Starfish appointment only

CREDIT

3 Semester Credit Hours (0 hours lecture, 18 contact hours)

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

RADR 1360

COURSE DESCRIPTION

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

COURSE OBJECTIVES/GOALS

This course is a continuation of previous clinical experiences and objectives. **The student is expected to maintain proficiency in the learned clinical skills** and acquire new skills. The student will acquire skills in performing spine examinations and routine contrast procedures. Students will be scheduled to complete an **observation** on off-hour rotations as an introduction to atypical situations and patients. Emphasis is placed on the affective domain to help the student radiographer develop good patient rapport and increase self-confidence.

This course requires students to make standard radiographs under close supervision by a qualified Radiologic Technologist. The course requires 18 hours/week of clinical participation. During this semester students will be required to complete rotations through other affiliates as well as off hour rotations. Off hour rotations should not exceed 24 hours for the entire semester.

Students are allowed to perform procedures in which they have achieved competency with minimal supervision.

1. The student will serve patients while demonstrating positioning skills, knowledge of

protocols, exposure factors, body systems, radiation protection, and communication skills while performing procedures on typical patients.

2. The student will demonstrate radiation protection for self, patient, and others.
3. The students will be able to carry out the following tasks for procedures requiring contrast media. They should be able to visualize the exam, organize the information, use reasoning skill to pre-set the exam room and select proper equipment and materials. They will also:
 - a. Select appropriate contrast media
 - b. Expose and evaluate preliminary image for positioning and technique
 - c. Take patient history
 - d. Prepare contrast media for administration
 - e. Prepare radiographic or fluoroscopy room
 - f. Set up emergency equipment as necessary
 - g. Assist in administration of contrast media
 - h. Observe patient for contrast reactions
4. The student will actively *assist* the radiologic technologist in preparing for and carrying out portable and surgical procedures including:
 - a. Portable bedside radiography
 - b. Open and closed reductions
 - c. Operative cholangiography
 - d. Hip nailings
 - e. Foreign object removal
5. The student will be able to demonstrate decision making and problem-solving skills by proper evaluation of patient by adjusting technical factors for common pathologic conditions, casts, body habitus, trauma, or pediatric patients.
6. The student will demonstrate competence in performing the following basic operations of digital imaging:
 - a. Select correct patient from work list
 - b. Enter patient information into the digital system if not generated in radiology information system.
 - c. Select exam and projections to be performed
 - d. Ensure that a technologist evaluates the image
 - e. Send the image to PACS after technologist approval
7. The student will *observe* the following regarding digital imaging manipulation:
 - a. Density and contrast changes by windowing and leveling
 - b. Adding text and other annotations to images
 - c. Image rotation and flipping
8. The student will be introduced to evaluation of the exposure index on their digital system by demonstrating knowledge of the exposure index range and knowing if their system is directly or indirectly proportional to the exposure factors.
9. During the off-hour rotation, the student will *observe*:
 - a. The different type of patients, i.e., trauma, E.R., etc.
 - b. Handling of patients with limited personnel
 - c. Independence in judgment exhibited by the technologists.
 - d. Department function without ancillary staff i.e.; aides, secretaries, etc.

- e. The different types and methods of exams performed during these shifts.
10. The student will work under direct supervision, which will help them become an active team member, which will build self-management skills.
 11. The student will work with diverse populations.
 12. Four (4) written exams will be administered at the clinical instructor. These will include two (2) film critique assignments, one (1) syllabus quiz on Blackboard, and one (1) additional test at the discretion of the clinical instructor.
 13. The student will be able to identify anatomy and common pathologic or abnormal conditions on a radiograph. This will be demonstrated as part of their Task Analysis and Film Critique lessons.

REQUIRED TEXTBOOK AND MATERIALS

Text and Materials –

- A computer with internet access is required. The computer must be able to run current programs and platforms such as Windows 10 and the internet connection 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.
- Computers are available for student use in the Learning Lab, Eagle's Nest Room 101 and the Mary and John Gray Library.

ATTENDANCE POLICY

1. For students in the radiology program to acquire the necessary clinical competency outlined in our curriculum, it is necessary that students complete all assigned clinical hours. Therefore, students missing **any** clinical hours will be required to make-up time missed at the end of the semester. Time will be made-up after the last scheduled clinic day or at the discretion of the clinical instructor. Students who do not complete make up time before the grades are due for the semester, will receive an incomplete (I) in the clinical course.
2. Any absence while assigned to a specialty area or off-hour rotation will require the clinical instructor to adjust the clinical schedule to assure all students meet the accreditation guidelines. For example, a student missing a day when assigned to an evening shift will have one of the future clinical days changed to an evening shift. The schedule adjustments will be made by the clinical instructor at their discretion.
3. Students who have tardy time totaling at least one (1) hour will be required to make up all the missed time at the end of the semester. When a student is tardy he/she will not be allowed to make up the time that day. If a student leaves clinic early for any reason, it will be added to the total tardy time.
4. If a student is unable to arrive at clinic within one hour of their scheduled time they will not be allowed to attend clinic on that day.
5. Students who miss a total of 24 hours during a Fall or Spring semester or 21 hours in the Summer semester **will receive a warning with the Disciplinary Action Form (DAF). When a fourth**

day is missed a DAF will be filled out and the Student's clinical grade will be lowered one full letter grade. Each subsequent absence may result in dropping of a letter grade pending a review by department committee.

6. Students who exhibit excessive tardiness will receive a warning with the DAF. Further tardiness will result in disciplinary action which may include an attendance contract and/or lowering of the student's clinical grade.
7. Students who fail to follow proper call-in procedures when unable to attend clinic will have their clinic grade lowered one full letter grade for EACH day they fail to follow proper call in procedure.
8. Extenuating circumstances will be reviewed by a faculty committee.

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.

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.

COURSE CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Jan. 21, 2025 through May 2, 2025	Students will x-ray hospital/clinic patients with direct and indirect supervision each day.		Monday-Sunday 7am-8pm 3 days per week 18 hours

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

GRADING SCALE

- 40% Task Analysis
- 40% Clinical Behavior Reports
- 20% Four (4) written tests including: (2) film critiques, (1) syllabus quiz on Blackboard, and the Clinical Milestones.

95-100	=A
87- 94	=B
80- 86	=C
70- 79	=D
69- below	=F

LIT does not use +/- grading scales

Failure to successfully complete the required objectives will result in an "I" (Incomplete) in the clinical course. An incomplete must be removed by the next long semester or the (I) will be recorded as an (F) and the student will be required to repeat the clinical course.

*****a minimum of 80% is required for successful completion of this course*****

By the end of the semester the student will:

1. Successfully complete six (6) **Task Analyses** from the following categories:
 - a. Spines
 - b. Extremities
 - c. Wheelchair AP chest or geriatric chest (Geriatric patient defined as 65+ years)
 - d. Routine contrast examinations

This is a list of exams that qualify for each category. It is not comprehensive and will be determined at the discretion of the clinical instructor.

All task analyses are at the discretion of your clinical instructor; they may choose the examinations you are to perform. A component of the task analysis process is to monitor and correct performance if repeat radiographs are required. **Students may be given the opportunity to repeat 1 task analysis during the summer semester under the following conditions:**

- Repeating the task analysis will change the student's letter grade for the semester
 - Repeating the task analysis will not prohibit another student from completing the required Task Analysis.
2. Receive at least (2) Clinical Behavior Reports. They will demonstrate affective skills needed by a professional such as: integrity, time management, sociability, and responsibility.
 3. Demonstrate critical thinking, problem solving and cognitive skills on written tests. Students will have at least two (2) film critique assignments.
 4. Students will rotate through evening and weekend shifts. This will be evaluated using the Specialty Rotation Form.
 5. Complete a syllabus quiz on Blackboard to ensure the student reads the clinic syllabus.

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>.

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.

AI 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

CLINIC POLICIES

1. Dosimeters must be worn at all times.
2. Identification badges must be worn at all times with name CLEARLY visible.
3. Students will abide by ALL handbook policies.
4. Student's failure to abide by handbook policies may result in the clinical grade being **lowered one full letter** for each occurrence.

There will be grade and monetary consequences if a student loses their dosimeter. Each dosimeter is a three-month record of occupational radiation dose. A lost badge removes three months of the lifetime occupational exposure from their record. It is lost and cannot be replaced. If a student loses their dosimeter the following will occur:

- The student will report the lost dosimeter to Brenda Barrow and their clinical instructor.
- The student will pay \$35 to the program to cover the cost of ordering a new dosimeter. The student will have point deductions on the next Clinical Behavior Report to emphasize the importance of the dosimeter. The student will receive a "Poor" in the Professional Appearance category due to the dosimeter being a part of the uniform of a student radiographer. The student will receive a "Poor" in the Quality of Work category which emphasizes professional standards including radiation protection. The clinical instructor will report the loss by documenting on the Disciplinary Action Form.

BLACKBOARD

All students will be required to login to **BLACKBOARD once a week on Tuesday** to check e-mail and complete assignments. It is your responsibility to meet the deadlines. **Students should access Blackboard on a computer and not a cell phone. Not all information displays correctly in the Blackboard app or on the cell phone browser. Issues caused by using a cell phone for access will be the responsibility of the student. For example, if you take a quiz, and it does not work properly, the quiz will not be reset. You will receive the grade assigned. Late work will not be accepted.**

If you are unable to meet a deadline in this course, send an e-mail and we will discuss your options.