



**LAMAR INSTITUTE  
OF TECHNOLOGY**

Practicum III Radiologic Technology-RADR 1266

### **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**

2 Semester Credit Hours (0 hours lecture, 20 contact hours)

### **MODE OF INSTRUCTION**

Face to Face

### **PREREQUISITE/CO-REQUISITE:**

RADR 1361

### **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 skill and proficiency in acquired clinical skills. Self-reliance in habits is emphasized. Students are expected to develop speed, high standards of quality, and affective behaviors consistent with a **professional** radiographer. The student is assigned to the clinical facility for 28 hours per week. Scheduling will include radiographic rooms, portables and surgery, and off-hour rotations.

The student will complete 48 hours of rotations on evenings and weekends in accordance with current program policy. Students will be required to complete rotations through other affiliates and special assignments.

Emphasis this semester is placed on skills in skull radiography, developing proficiency in emergency situations, and with *atypical* patients. Film critique, radiographic anatomy, and C-arm procedures are also part of the objectives.

**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 atypical patients.
2. The student will demonstrate radiation protection for self, patient, and others.
3. The student will be able to demonstrate decision making and problem-solving skills by proper evaluation of the patient, adjusting technical factors and/or equipment for common pathologic conditions: casts, body habitus, trauma, or pediatric patients.
4. With *Direct Supervision* the student will utilize problem-solving skills to make technique decisions based on the exposure index on each image.
5. The student will be able to visualize the exam, organize the information, and pre-set the examination room by selecting proper equipment and materials that may be needed prior to admitting the patient to the examination room.
6. The student will be evaluated on his/her creative thinking ability and reasoning skills while performing a radiographic examination on a trauma, difficult, or uncooperative patient according to proper safety techniques and radiographic principles.
7. The student will demonstrate a basic understanding of digital image manipulation:
  - a. Evaluate the exposure index and make technique adjustments if necessary.
  - b. Brightness and contrast evaluation.
  - c. Adding text to images.
  - d. Image rotation and flipping.
8. The student will be able to identify anatomy as well as common pathologic or abnormal conditions on a radiographic image. This will be demonstrated as part of their task analysis and film critique lessons.
9. The student will perform portable and surgical radiography. They will demonstrate creative thinking ability, proper decision making and problem-solving skills by patient evaluation and...
  - a. Demonstration of knowledge and expertise in adapting positioning skills for bedside and surgical radiography.
  - b. Adjustment of technical factors within the limitations of the mobile equipment for body habitus, pathology, presence of a wet or dry cast, etc.
  - c. Demonstration of knowledge in radiation protection by using proper collimation, distance, and protective shielding for both patient and technologist.
  - d. Demonstrating proper aseptic technique when preparing mobile equipment for a sterile surgical procedure or performing an examination on an isolation patient.
10. The student will under direct supervision, assist a technologist with a C-arm procedure that will include preparation and setting up the equipment, manipulation of the c-arm during the procedure, taking and storing images, and removal of the equipment from the work area.
11. Students will rotate through special assignments and other affiliates, while assigned to these areas the students will be able to:
  - a. Show punctuality and availability for patient examinations.
  - b. Demonstrate an interest in the area of rotation.

- c. Participate as much as is allowed in the imaging process.
  - d. Effectively communicate/interact with classmates, technologists, instructors, and patients.
  - e. Demonstrate a basic understanding of the examinations performed in specialty areas.
12. During off-hour rotations the student will demonstrate, with **minimal supervision**, the following tasks:
- a. Radiography of difficult or uncooperative patients.
  - b. Make independent decisions concerning technique, positioning, restraining devices, and film quality.
  - c. Build self-reliance habits.
13. The student will work under indirect supervision which will help them become an active team member in the radiology department. This will also build their self-esteem and self-management skills.
14. Students will work with diverse populations.
15. Written exams will include a syllabus quiz on Blackboard and one other test at the discretion of the clinical instructors.

## **REQUIRED TEXTBOOK AND MATERIALS**

Text and Materials – The textbook is suggested for reference but it is not required.

- Ethical and Legal Issues for Imaging Professionals, 2<sup>nd</sup> edition, Towsley-Cook/Young
  - ISBN 9780323045995
- 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 online requirements. The computer must have a camera and microphone for online conferencing.
- Computers are available for student use in the Learning Lab TC 112.

## **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 not completing 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 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**

<b>DATE</b>	<b>TOPIC</b>	<b>READINGS (Due on this Date)</b>	<b>ASSIGNMENTS (Due on this Date)</b>
June 3, 2024 through Aug. 16, 2024	Students will x-ray hospital/clinic patients with direct and indirect supervision each day.		Monday-Sunday 7am-6pm 4 days per week 24-32 hours

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

- 40% Task Analyses
- 40% Clinical Behavior Reports
- 20% Two (2) written tests including: one (1) syllabus quiz and one (1) other test at the discretion of the clinical instructors.

## GRADING SCALE

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 summer session the student will:**

1. Successfully complete 6 **Task Analyses** from the following categories.
  - Difficult or atypical patient (Trauma, Multiple exams, Lumbar puncture)
  - Contrast (UGI, BE, IVU, arthrogram)
  - Head (Skull, sinus, facial bones, mandible, CT Brain)
  - Spine (Full spine exams)
  - Portable radiography (Chest, Abdomen, extremity, spine)
  - Pediatric or geriatric (Chest, abdomen, or extremity)
    - Pediatric  $\leq$  6 years old
    - Geriatric  $\geq$  65 years old
  - C-arm Procedure (once the C-arm Competency Form is completed)

**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. Use critical thinking skills to critique selected images for the following factors:
    - technical quality
    - positioning
    - proper collimation

- artifacts/identification markers
  - anatomical structure identification
3. Use critical thinking and problem-solving skills to solve ethical and legal dilemmas discussed in various textbooks covering ethical and legal issues for imaging professionals.
  4. Receive two **Clinical Behavior** Evaluations during the summer semester. They will demonstrate affective skills needed by a professional like: integrity, time management, sociability, and responsibility.
  5. Demonstrate cognitive skills, critical thinking and problem-solving skills on film critique assignments at clinic.
  6. Rotate through **Special Assignments**. At least one of the task analysis should be accomplished during the Special Assignments. This area includes evenings and weekends.
  7. Attend scheduled student Radiologic Technology meetings on the LIT campus.

### **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](mailto: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](http://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.

## 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 \$28 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 **Thursday** 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.**