

BASIC RADIOGRAPHIC PROCEDURES (RADR 1411 Lab 5A/5B)

CREDIT

4 Semester Credit Hours (3 hours lecture, 2 hours lab)

MODE OF INSTRUCTION

Face-to-Face: This course will be taught in a multimedia format. Lectures, demonstrations, and discussion will be utilized to enhance the cognitive learning process. Students will have class homework assignments in the semester. The student will be required to utilize both reading and listening skills.

PREREQUISITE/CO-REQUISITE

Basic Radiographic Procedures (RADR 1411 3A1)

COURSE DESCRIPTION

This supervised laboratory section is designed to provide the student technologist with the cognitive and psychomotor skill necessary to perform routine diagnostic procedures. The lab course will be conducted by instructors utilizing a demonstration format. The format will require students to perform designated procedures in simulation exercises. Students must participate in simulations both as the radiographer and as the patient.

COURSE OBJECTIVES

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

- Define radiographic positioning terms
- Manipulate equipment
- Perform basic level procedures in positioning
- Align anatomical structures and equipment
- Evaluate images

INSTRUCTOR CONTACT INFORMATION

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Instructor: April Smith
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ATTENDANCE & COURSE POLICIES

1. Class attendance is **mandatory** to ensure that students receive the skill necessary to complete the required competencies to be successful in the Radiologic Technology Program.
2. ***Chronic tardiness to lab or leaving lab early*** will not be tolerated and can be counted as an absence.
3. Students missing more than two (2) labs or having more than two (2) tardies will be counseled.
4. On the fourth (4) day is missed/tardy/or a student leaves early 4 times a DAF will be filled out.
5. On the fifth (5) occurrence, five points will be deducted from the next Lab Practical.
6. Students should read and practice the assigned procedures **PRIOR** to coming to lab and be prepared to perform the procedures after demonstration.
7. The instructor will demonstrate, or use audiovisuals to demonstrate, each projection of the procedures scheduled for that lab class.
8. Students should have textbook and protocol notebook with them at each lab session.
9. Recording devices may be used except during tests and when otherwise stated by the instructor. This includes all recording devices i.e. meta glasses, phones, recorders, etc.
10. Using the outline in the textbook, each student will practice the projections/positions. Students will work as a team with other classmates. They will alternate between being the patient and the radiographer. They will use interpersonal skills to observe each other's performance and offer feedback. This will help build the student's self-management and sociability skills.
11. Instructors will be available, but students are accountable for learning the required positioning skills.

STUDENT EXPECTATIONS

Class attendance is important to ensure that students receive the skill necessary to complete the required competencies to be successful in the Radiologic Technology Program. ***Chronic tardiness to lab or leaving lab early will not be tolerated and can be counted as an absence.*** Students should read and practice the assigned procedures prior to coming to lab and be prepared to perform the procedures after the demonstration.

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.

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RADIOLOGY LABORATORY

This supervised laboratory section is designed to provide the student technologist with the cognitive and psychomotor skill necessary to perform routine diagnostic procedures. The lab course will be conducted by instructors utilizing a demonstration format. The format will require students to perform designated procedures in simulation exercises. Students must participate in simulations both as the radiographer and as the patient. The instructor will demonstrate, or use audiovisuals to demonstrate, each projection of the procedures scheduled for that lab class. Students should have textbook and protocol notebook with them at each lab session.

SIMULATION

To ensure that student radiographers acquire the necessary skill to perform routine radiographic procedures, students must complete a **Simulated Performance Evaluation** on all routine procedures. All of the grades will be averaged at the end of the semester for one Simulated Performance grade. If the student does not pass the **Simulated Performance Evaluation** with an **80%** or greater the grade will still be recorded, but they must repeat the exam at the end of lab class. If they still do not complete the Performance with an 80% or greater they will repeat it on the Competency Check Off day, before the test. If student is absent for lab-simulation can be done in clinic the next day with instructor, if possible, or it must be done on Practice Lab Practical Day before Lab Practical Test. **Students will not be allowed to take the Lab Practical until they have scored at least an 80% on all Performances (Simulations).**

CHECKLIST

Students will be provided a **Positioning Simulation Checklist** that will become part of their permanent record. This checklist is the responsibility of the student and will be a record of the completed performance evaluations. ***This checklist is different from the one given in clinic.*** Simulations will be performed in the laboratory setting. Students must have an average of **80%** on a Performance to have it signed off. The student must have the checklist signed and dated by the instructor completing the evaluation. The checklist is the responsibility of the student and if it is lost or misplaced the student may be required to perform the simulations over. At the end of the semester the checklist will be turned in to the instructor and will be used the following semester in RADR 2401.

Radiographic labeling assignments in blackboard

There will be labeling assignments in blackboard. **NO LATE WORK WILL BE ACCEPT.** The assignment will be due by that scheduled date at 11:59pm.

RADIOGRAPHIC REVIEW

Radiographs of the anatomy and positioning being demonstrated in each lab session will be displayed in the lab. Students are responsible for using decision making skills to identify the projection, position, and structures demonstrated for the areas being covered. Through creative thinking they will discuss how to alter the tube/film/part for difficult patients (e.g. trauma, pediatric, obese). The film critique and evaluation section in the textbook will be used to critique each radiograph based on evaluation criteria provided in the textbook.

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PROTOCOL NOTEBOOKS

Each student must have a LAB notebook with sheet protectors to keep their protocols in.

Protocol Assignments must be neatly hand-written; not typed. ***All Protocol Assignments are according to your Bontrager Positioning Textbook, NOT Clinic.*** Failure to submit your assignment on the due date will result in **10 points off per class period.**

- Each student will be responsible for a **LAB Notebook**.
 - a. Notebook will include daily assignments as listed on the laboratory syllabus.
 - b. All pages in the notebook will be in sheet protectors.
 - c. Notebooks will be graded on ***Practice Lab Practical/Review Days*** set in schedule.
 - d. You will get a grade for the protocols which is averaged in with the daily simulations and labeling assignments.
- On day of LAB Notebook check, if a student does not have their notebooks, **10 points will be taken off for each day** they are late.

LABORATORY PRACTICALS

Four Lab Practicals (TEST) will be given during the semester. Students will perform in simulation, two randomly drawn procedures from the units included in the practical. The simulations will include positioning, equipment manipulation, and radiation protection. The student will perform each projection requested by the instructor. When this student has completed the performance, he/she will then become the patient for his/her lab partner. Upon completion of both students' performance, the instructor will notify each of his/her score.

Students are not to prompt their partners in any way during a laboratory practical. One warning will be given. Any further prompting will result in a grade of "0" zero on the simulation for both parties. Radiographic film critique and anatomy will also be included in the Lab Practical.

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RADR 1411 Laboratory Schedule- Fall 2026

- 25 Aug** Introduction to Lab and Equipment Demonstration
- 27 Aug** Patient History & Equipment Checklist
- 28 Aug** **FRIDAY – Practice exposures/ Meet and Greet**
- 1 Sept** Chest (**PA, LAT, DECUB, LORDOTIC, AP SUPINE**)
Assignment: Protocol for PA and Lateral Chest
Chest labeling in BB due **Friday Sept 4**
- 3 Sept** KUB (**KUB, UPRIGHT, DECUB**)
Assignment: Protocol for Abdomen
Abdomen labeling in BB due **Sunday Sept 6**
- 4 Sept** **FRIDAY – Prepare for CLINIC!**
- 8 Sept** Sternum (**RAO, LAT**)
Assignment: Protocol for Sternum
Sternum labeling in BB due **Friday Sept 11**
- 10 Sept** Ribs (**AP UPPER, AP LOWER, OBL**)
Assignment: Protocol for Ribs
Ribs labeling in BB due **Sunday Sept 13**
- 11 Sept** **FRIDAY –TMC Meeting & LIT Make-up competency check-offs**
Practice Practical I & Practical Review, Lab Notebooks due
- 15 Sept** **TEST - Lab Practical I: Body positions & movements, Chest, KUB, & Bony Thorax**
- 17 Sept** Review TEST Lab Practical I; Hand (**PA, OBL, LAT**) Wrist (**PA, OBL, LAT**)
Assignment: Protocol for Hand & Protocol for Wrist
Hand and Wrist labeling in BB due **Sunday Sept 20**
- 22 Sept** Forearm (**AP, LAT**) Elbow (**AP, OBL, LAT**)
Assignment: Protocol for Forearm & Protocol for Elbow
Forearm and Elbow labeling in BB due **Friday Sept 25**
- 24 Sept** Humerus (**AP, LAT**) Shoulder (**INTERNAL, EXTERNAL, Y-VIEW**)
Assignment: Protocol for Humerus & Protocol for Shoulder
Humerus and Shoulder labeling in BB is due **Sunday Sep 27**
- 25 Sept** **FRIDAY – Image Critique I /Trajecsys/ QC**
- 29 Sept** Scapula (**AP, LAT**) Clavicle (**AP, AP Axial**)
Assignment: Protocol for Scapula & Protocol for Clavicle
Scapula and Clavicle labeling in BB due **Friday Oct 2**
- 1 Oct** Make-up competency check-offs
Practice Practical II & Practical Review, Lab Notebooks due
- 2 Oct** **FRIDAY -- LIT CBR 8:30-3**
- 6 Oct** **TEST - Lab Practical II: Upper extremity, Shoulder girdle**
- 8 Oct** Review TEST Lab Practical II; Calcaneus (**Plantodorsal Axial, LAT**)
Assignment: Protocol for Calcaneus
Calcaneus labeling in BB due **Sunday Oct 11**

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- 13 Oct** Foot (AP, OBL, LAT) Ankle (AP, OBL, LAT)
Assignment: Protocol for Foot & Protocol for Ankle
Foot and Ankle labeling in BB due **Friday Oct 16**
- 15 Oct** Leg (AP, LAT) Knee (AP, OBL, LAT) Patella (PA, LAT, SUNRISE)
Assignment: Protocol for Leg (Tib/Fib) & Protocol for Knee
Leg and Knee labeling in BB due **Sunday Oct 18**
- 16 Oct** **FRIDAY --Trajecsys/ QC**
- 20 Oct** Femur (AP, LAT) Hip (AP, FROG, Trauma)
Assignment: Protocol for Femur & Protocol for Hip
Femur and Hip labeling in BB due **Friday Oct 23**
- 22 Oct** Pelvis (AP) SI Joints (AP AXIAL, OBL)
Assignment: Protocol for Pelvis & Protocol for SI Joints
Pelvis and SI joints labeling in BB due **Sunday Oct 25**
- 27 Oct** Make-up competency check-offs
Practice Practical III & Practical Review, Lab Notebooks due
- 29 Oct** **TEST - Lab Practical III: Lower Extremity, Pelvis**
- 30 Oct** **FRIDAY -- Review Lab Practical III/ Image Critique II**
- 3 Nov** Cervical Spine (LAT, FLEX, EXT, OBL, AP AXIAL, ODONTOID)
Assignment: Protocol for Cervical Spine
Cervical labeling in BB due **Friday Nov 6**
- 5 Nov** Thoracic Spine (AP, LAT, SWIMMER'S)
Assignment: Protocol for Thoracic Spine
Thoracic labeling in BB due **Sunday Nov 8**
- 6 Nov** **FRIDAY --LIT Rad Tech Week Luncheon Kickoff!**
- 10 Nov** Lumbar Spine (AP, AP AXIAL, OBL, LAT, LAT SPOT)
Assignment: Protocol for Lumbar Spine
Lumber labeling in BB due **Friday Nov 13**
- 12 Nov** Sacrum (AP AXIAL, LAT) Coccyx (AP AXIAL, LAT)
Assignment: Protocol for Sacrum & Coccyx
Sacrum and Coccyx labeling in BB due **Sunday Nov 15**
- 13 Nov** **FRIDAY -- CBR 8:30-2**
- 17 Nov** Make-up competency check-offs
Practice Practical IV & Practical Review, Lab Notebook due
- 19 Nov** **TEST Lab Practical IV: Spines**
- 24 Nov** Review Lab Practical IV (During Lunch Time) --- Last Lab Day!
- 26 Nov** **HAPPY THANKSGIVING!!!!**

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COURSE EVALUATIONS

The lab grade represents **15%** of the overall grade in RADR 1411.

The grade for lab will be determined in the following manner:

Average of all Simulated Performance Evaluations, labeling assignments, and notebooks- **20%**

Lab Practical I - **20%**

Lab Practical II - **20%**

Lab Practical III - **20%**

Lab Practical IV - **20%**

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 resources 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

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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.

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Radiology Lab Dress Code

In RADR 1411 and RADR 2401 Radiographic Procedures courses students take turns as the patient and technologist during simulations. The student will be on the table in various radiographic positions that may result in exposure of anatomy that should not be exposed in an educational setting. The student must reach up to manipulate the radiographic tube.

- Students are not allowed to wear shirts that expose their mid-drift unless they have a shirt that can be buttoned up to cover the exposed skin.
- Students are not allowed to wear shorty shorts/skirts or extra tight skirts/shorts/pants that expose their rear end when they reach above their head, abduct their leg, or are positioned on their side.

There are other LIT Allied and Health programs that require their students to wear scrubs every day: lecture, lab, and clinic. The Radiologic Technology program is trying to avoid this requirement due to increased student uniform expense. The student is allowed to wear scrubs or scrub pants and t-shirts if they wish.

Name

Date