



Limited Medical Radiologic Technology Program

Information

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Radiologic Technology

Thank you for your interest in the Limited Medical Radiologic Technology Program at College of the Mainland (COM).

Radiography is the art and science of using radiation to image the human body. These images assist the radiologist in interpreting the images to make a diagnosis of the patient's condition. A radiographer is a healthcare professional who takes these images. Limited Medical Radiologic Technologists may be employed in clinics, urgent care centers, and physicians' offices.

The program is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

Program Mission Statement

The College of the Mainland Limited Medical Radiologic Technology Program will provide the community with competent entry-level Radiologic Technologists who will demonstrate professionalism and clinical competency while providing compassionate and respectful patient care.

Program Goals

- The program will have a five-year average credentialing examination rate of not less than 75 percent at the first attempt within six months of graduation.
- The program will have a five-year average job placement rate of not less than 75 percent within twelve months of graduation.
- The program will have an annual completion rate of not less than 75 percent.

Program Learning Outcomes

- Students will employ effective communication skills.
- Students will demonstrate independent critical thinking and problem-solving skills.
- Students will apply the knowledge and skills to be a clinically competent entry-level radiographer.
- Students will model professionalism and ethical behaviors.

Learn More

To learn more about radiologic technology, please visit the [American Society of Radiologic Technologist](#) and the American [Registry of Radiologic Technologists](#) webpages.

Program Course Schedule:

The program is 1 year (3 semesters) in length and begins in January. A limited number of students are selected each year through a selective application process.

Prerequisite Courses

Course ID	Name	SCH
ENGL 1301	English	3
BIOL 2401 (and Lab)	Anatomy and Physiology I	4
MATH 1314 or higher-level ALGEBRA	Math	3

Spring Semester

Course ID	Name	SCH
RADR 1411	Basic Radiographic Procedures <ul style="list-style-type: none">An introduction to radiographic positioning terminology, manipulation of equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of basic anatomy.	4
RADR 1309	Introduction to Radiography and Patient Care <ul style="list-style-type: none">An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included.	3
RADR 2209	Radiographic Imaging Equipment <ul style="list-style-type: none">Equipment and physics of x-ray production. Includes basic x-ray circuits. Also examines the relationship of conventional and digital equipment components to the imaging process.	2
RADR 1166	Practicum I <ul style="list-style-type: none">Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.	1

Summer Semester

Course ID	Name	SCH
RADR 2401	Intermediate Radiographic Procedures <ul style="list-style-type: none">A continuation of the study of the manipulation of radiographic equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of anatomy.	4
RADR 1313	Principles of Radiographic Imaging I <ul style="list-style-type: none">Radiographic image quality and the effects of exposure variables.	3
RADR 1266	Practicum II <ul style="list-style-type: none">Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.	2

Fall Semester

Course ID	Name	SCH

RADR 2313	Radiation Biology and Protection Principles of Radiographic Imaging II <ul style="list-style-type: none"> Effects of radiation exposure on biological systems. Includes typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. 	3
RADR 2305	Principles of Radiographic Imaging II <ul style="list-style-type: none"> Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production. 	3
RADR 2266	Practicum III <ul style="list-style-type: none"> Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. 	2

Program Costs

Estimated program costs are:

In-District Tuition	\$ 2,079
Professional liability insurance	\$75
Uniforms (2 sets)	\$ 150
Patches (3)	\$ 30
Required Textbooks (for the entire program)	\$ 1200
Positional Markers (2 sets)	\$ 70
Background/Drug Screening	\$ 79
Immunization and competency tracking	\$ 500
Parking fees at clinical sites	\$ 300
Immunizations/physical required while in the program	\$ 100
Radiation badges (lost badges incur additional costs)	\$ 400
ASRT student membership	\$40
Total cost	\$ 5,023

There may be additional fees for clinical site onboarding, and this is site dependent.

Upon successful graduation from the program, students are eligible to sit for the State of Texas LMRT Examination, given by the ARRT. Upon successful completion of the exam, LMRT's may apply for a Texas Medical Radiologic Technologist license. The cost is approximately \$80 for the license and \$34 for the required Jurisprudence exam.

Technical Standards

The Technical Standards and Essential Functions are expectations in the field of medical imaging; they are the tasks, duties, and responsibilities that comprise the means of accomplishing the job's purpose and objectives. The expectations in medical imaging are listed below and other duties, responsibilities and requirements may be added by the employer. While any student may apply for and be accepted to the program, all clinical facilities have the right to refuse clinical rotations to any student for whom they feel the standards cannot be met.

Accomplish the mental and concentration demands of imaging.

- Concentrate / work effectively for extended period amidst on-going distractions.
- Learn and retain new information.
- Apply theoretical concepts underlying the clinical practice of radiology imaging.
- Assume responsibility for one's actions and the patient's need during exams.
- Gather, analyze, and correctly interpret information.

Communicate effectively in handwritten, electronic, and verbal modes (in person or on phone).

- Communicate in English effectively and professionally with patients and their families, medical staff and providers, co-workers.
 - To provide information regarding the exam and related patient education.
 - Confirm the identity of the patient and explain exam procedures to reduce anxieties and obtain patient cooperation.
 - Assess the patient's condition by asking questions and listening to and responding to inquiries.
 - Explain and direct the patient in the breathing instructions required for an exam.
- Maintain accurate records/documentation, including the ability to fill out patient histories on requisition forms and other written communications in an understandable fashion.

Professionalism

- Adhere to national, organizational, and departmental standards, protocols, policies and procedures regarding radiologic technology; established practice standards of the profession.
- Respect of the patient's right to privacy and confidentiality within HIPPA requirements.
- Perform safe, ethical, and legal practices.
- Practices accepted radiation protection techniques for patients, technologists, and others.
- Provide patient-centered, clinically effective care for all patients regardless of age, gender, disability, special needs, ethnicity, or culture.
- Adapt to changes and varying clinical situations by applying critical thinking skills and professional judgment to organize and complete multiple tasks accurately and within an assigned time that will improve the therapeutic outcome.
- Work within a clinical environment, which involves exposure to persons with physical and mental disabilities, and to pain, death, stress, communicable diseases, blood, and body fluids, toxic substances, and noxious odors.
- Respects cultural variations and provides patient care and service free from bias or discrimination.
- Comprehension

- The ability to understand and follow basic instructions and guidelines.
- The ability to understand, remember and communicate routine, information.
- The ability to understand complex problems and to collaborate and explore alternative solutions.

Vision and Hearing

- Read typewritten, handwritten and computer information.
- Distinguish colors and opacity.
- Depth perception and acuity to judge distances and spatial relationships.
- Ability to observe patients directly during the imaging process to ensure the patient's well-being.
- To recognize emergency situations such adverse reactions to contrast administration, breathing difficulty, cardiac arrest, diabetic-related problems, shock, etc.
- Work effectively in areas with varying light levels from bright to dim.
- Vision, correctable to a sufficient level to read normal print, observe patients, manipulate equipment and accessories, evaluate radiographs for quality, and function with computers.
- To detect, interpret and appropriately respond to non-verbal communication, acoustically generated signals (call bells, monitors, phones, alarms)
- Hearing, correctable to a level to detect specific noises, proper equipment operation, and communicate effectively with patients and members of the health care team on the telephone or when your back is turned.
 - Background or distracting noise may be present in the examination or work area.

Physical (stamina, manual dexterity, and agility factors)

- Stamina to stand or walk throughout the workday (8 to 10 hours) with and without radiation safety devices on, such as a lead apron.
- Stand, crouch, stoop, bend, balance, twist, and reach/grasp in front of body, to sides of body and below knees. Reach above shoulder and head to manipulate the x-ray tube and equipment.
- Bending body downward and forward by bending spine to aid in patient transfer, lifting image receptors, accessories and moving the x-ray tube and objects horizontally from one position to another.
- Ability to walk within a small, confined area so that sterile trays or patients will not be disturbed in small rooms.
- Moderate strength is required to frequently lift and carry/transport 15-50 pounds (or more) routinely from one location to another. Includes items such as accessory equipment, mobile units, wheelchairs, stretchers, and immobilization devices.
- Display physical strength to move patients and assist patients with medical equipment and respond to their needs of safety, comfort, and modesty.
- Manual dexterity and eye-hand coordination to manipulate the imaging table, position the patient properly on the imaging table, operate associated equipment (beam restriction, cart, wheelchair, oxygen tank, etc.) and manage equipment controls.
- Must use eyes, hands, and fingers with skill in a limited time to set the technical factors at the generator consoles and to deliver the radiation.

Prerequisite Course Requirements:

Students who meet the qualification requirements for admission to the College of the Mainland can apply to the Limited Medical Radiologic Technology program once the prerequisite requirements are completed. The minimum grade accepted is a "C".

Below is a list of the minimum prerequisite course requirements to apply to the Radiologic Technology program:

- ENGL 1301 (Composition I)
- BIOL 2401 (Anatomy and Physiology I)
- MATH 1314 (College Algebra)

*GPA for selection criteria is based on prerequisite courses.

Official transcripts will be reviewed by Admissions and Records. Please review [COM's](#) transcript evaluation process and timeframe.

Students may use CLEP scores for any prerequisite courses that COM approves. The acceptable scores are:

- 72-80 = A
- 64-71 = B
- 50-70 = C

Any score under 50 will not be accepted. An official transcript of the CLEP score must accompany the application or be sent to the Program Director via email at the time of application submission.

Immunizations

All immunizations are paid for by the student.

All students must provide proof of immunizations for:

Immunization	Requirements	Explanation
Hepatitis B	Complete Series	Must provide official documentation of receiving complete vaccination series. <ul style="list-style-type: none">• 3 dose series is required to be completed over 8 months.• 2 dose series (Heplisav-B) is required to be completed over 2 months.
Varicella	2 doses OR positive titer	Must provide official documentation of receiving two doses of the Varicella vaccination given at least 28 days apart OR titer confirming immunity.
MMR (measles, mumps, rubella)	2 doses OR positive titer	Must provide official documentation of receiving two MMR vaccinations given at least 28 days apart OR titers confirming immunity.
TDAP (Tetanus, Diphtheria, Pertussis)	1 dose	Must provide official documentation of receiving one TDAP vaccination given within the past 8 years.

After program acceptance, the student must provide:

- Yearly influenza
- Yearly negative TB screening (this may be through a skin test or blood test).
- COVID vaccine*

A titer is a blood test that demonstrates immunity.

Vaccinations must include the student's name, facility name administering vaccination or titer, and dates of vaccination or titer. If a titer is being used, the document must also include the titer results.

All documentation must be uploaded in PDF format. Images are not accepted.

If a potential student is a non-converter for any immunization/titer results, the student must provide proof of immunization, proof of second immunization, and proof of negative titer after second immunization, and a letter from your physician stating you are a non-converter. Upload all this documentation with your application.

*College of the Mainland does not require COVID Vaccinations to attend classes; however, many of our affiliated clinical sites mandate COVID Vaccinations. Some of them will accept an exemption for medical or religious beliefs. It is the discretion of the clinical site if you qualify for one of these exemptions. In each case, it is the responsibility of the student to complete the specific clinical site's exemption paperwork and submit directly to them. A copy of the approved exemption must be submitted to the program for the student's file.

Prior experience

If you have medical field work experience you may use information to increase your application ranking.

You will be asked to upload:

- Job title
- Employer name
- Contact Person
- Contact Person Phone
- Contact Person Email
- Dates of Employment
- Full-time or Part-time

We must have an actual employer, not a friend you might have worked with. We will only be confirming employment in the position you documented, no other information will be asked for. You are not required to submit this information; however, no ranking points will be given for unverified work experience.

You may upload up to 2 job-related experiences.

Medical experience includes CNA, MA, LVN, LPN, RN, Paramedic, EMT, Phlebotomist, Surgery Technologists, Transporter, Imaging assistant, technologist in any imaging modality, etc.

Residency:

If you live in the COM district (and have at least 12 months prior to program application), you may use this information to increase your application ranking.

Video:

Please submit a 2-minute video introducing yourself to the Program, and why you are pursuing a career in Radiologic Technology.

Prerequisite courses:

If you completed your prerequisite classes at COM (the classes used on your application) you may use this information to increase your application ranking.

Other Program Requirements:

Students must have a current **American Heart Association (AHA) BLS** certification by the first day of class. This must not expire while in the program. [COM](#) offers these courses.

Students must provide a copy of their personal health insurance by the first day of class. This must be maintained during the program and must not lapse.

Students must have access to a reliable computer with a camera and audio capabilities for testing and assignments.

Students must have reliable transportation to clinical facilities. Students must travel to any clinical facility used by the program, and no special consideration is given to clinical placements.

Students will also need to provide a copy of their driver's license, Identity card, or I9 documentation by the first day of class.

Students will be required to submit to a random drug test and background screening after they are contingently accepted into the program.

Graduation Requirement:

Before a degree is conferred, students must have:

- Completed all COM's entrance requirements.
- Completed all course requirements for the certificate being conferred with a minimum grade of "C" in all courses.
- Completion of at least 25% of the credit hours toward any degree must be earned at COM; however, at least 51% of the required specialized courses must be completed at COM.
- Cleared all holds and financial obligations to COM.
- All clinical facility ID badges and dosimeters must be returned to the Program before the student will be released to take the State of Texas examination.

Disclaimers

- Successful completion of a criminal back-ground check does not ensure eligibility for licensure or future employment.
- Clinical agencies can establish more stringent standards, if they so desire, to meet regulatory requirements for their facility.
- Clinical agencies can conduct additional background checks and drug screening at their discretion.
- If a student is found ineligible for clinical placement at any time during the program, they cannot meet clinical learning objectives and will be administratively withdrawn.
- Students asked to leave the program for violation(s) of COM's or the program's code of conduct, ethical standards, academic honesty, civil rights, or harassment policies are not eligible for readmission.
- Students may be barred from taking the Texas State licensing exam based on prior criminal convictions. Please review the [Texas Medical Board – Medical Radiologic Technologist Licensing website](#).

Program Application Instructions:

The program has a competitive entry process and no advanced standing or waiting lists will be carried forward to next year's application process. A new application is required every year.

The application cycle opens August 15 and closes on October 31. Students will be notified of the acceptance into the program no later than November 15. It is HIGHLY suggested that students check their COM email **DAILY**. Acceptance can come anytime between November 1 and November 15. Once selected, students will be notified via **COM email** only and have 7 days to accept their contingent spot within the program. If the student does not accept within the 7 days, their contingent offer of a spot in the program will be withdrawn and an alternate student will be selected.

All applications will be reviewed to ensure that the student meets the minimum requirements.

The program has a mandatory orientation for all newly accepted students held on the first Tuesday in December.

Cohort size will be determined by availability of clinical placements.

Information needed to complete the application:

- COM ID number and email address.
- Grades for prerequisite courses. An official transcript must be sent to Admissions and Records (A/R). It may take several weeks for A/R to review the transcript so be sure this is submitted to A/R in time to be reviewed before the end of the application cycle.
- Immunizations
- Prior work experience if applicable. This is not required but does provide additional application points. You may include up to 2 work-related experiences. Be prepared to include:
 - Job title
 - Employer name
 - Contact Person
 - Contact Person Phone
 - Contact Person Email
 - Dates of Employment
 - Full-time or Part-time
- Upload a 2-minute video introduction.

Please contact us at **radtech.edu** for any questions or issues.

Application Ranking

GPA:

3.5 – 4.0	3 points
2.75 – 3.25	2 points
2.0- 2.5	1 point

Prerequisite courses at COM

ALL the prerequisite courses were completed at COM	2 points
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Residency

Resides in the DOM district (and meets COM in district requirements)	2 points
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Work experience:

Medical Experience: Currently working as a healthcare professional (such as CNA, LVN, Phlebotomy technician, MA, Radiology Assistant, EMT, Dental Assistant, Patient Care Technician, Psychiatric technician, Scrub technician, and others deemed appropriate by the program).	2 points
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Video presentation

<ul style="list-style-type: none">• Audio and visual presentation was clear, informative, and easily understood.• The student spoke clearly with appropriate tone and volume.• The student showed enthusiasm and interest.• The student's visual appearance and video background is professional in manner, communication, attitude, and appearance. (It does not need to be professionally created, but wearing a swimsuit on the beach would not rate high in appearance).	2 points
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If there is a tie in ranking in determining program acceptance, the students will then be scored as following:

- Using GPA as first review, the student with the highest GPA will be selected.
- If continued review is needed, the student with the highest number of points for residency will be selected.
- If continued review is needed, the student with the highest number of points for prerequisite courses will be selected.
- If continued review is needed, the student with the highest number of points for video presentation will be selected.

After Program Acceptance

You will be given instructions on how to complete these **AFTER** you have been accepted into the program.

Health Assessment

Students must provide a health assessment with a qualified Physician, Nurse Practitioner, or Physician Assistant. Students will not be required to provide this until they are accepted into the program. This is required yearly. This will be submitted on an official form provided by the program and cannot be completed before acceptance into the program.

Drug Screening

Students must complete a **random** drug screening. Students may only use the programs' approved vendors, and the screening must be done in the period dictated by the program. It will be a random screening, and students will have a limited amount of time from notification (by email) to complete the screening. Any dilute screening will be considered a suspicious finding, and the student will have 24 hours to submit an additional screening. A positive or second dilute drug screening will remove the student from the program. This must be completed in the time frame given by the program. If not done in this time frame, the student will be denied acceptance into the program and an alternate will take their spot.

Background Screening

All accepted students are required to complete a background check administered by programs' approved background check vendors. Students with background check issues are highly suggested to review the [Texas Medical Board – Medical Radiologic Technologist Licensing website](#).

Getting Started

I am interested in the Limited Medical Radiologic Technology Program - what next?

- Enroll at COM – our enrollment coaches are ready to help!
- Complete the prerequisite courses.
- While completing the courses, be sure to get all your immunizations (start Hepatitis B at least 8 months prior to applying for the program)
- Take an AHA BLS CPR Class.
- Lab Titer results – have this done 3 months prior to applying to the program in case you need a “booster” immunization.
- Make sure Admissions and Records have an official copy of your transcripts for the prerequisite courses (if you are not a COM student). It can take up to 6 weeks for a transcript review, so be sure this is done at least 6 weeks prior to applying for the program.