



DIAGNOSTIC MEDICAL IMAGING (RADIOLOGIC TECHNOLOGY)

Radiologic Technologists make up the third-largest group of health care professionals—surpassed in number only by physicians and nurses. A primary responsibility of many technologists is to create images of patients' bodies using medical equipment. This helps doctors diagnose and treat diseases and injuries.

PROGRAM MISSION STATEMENT

The Medical Imaging Sciences at Long Beach City College includes the Diagnostic Medical Imaging Program (DMI), the Computerized Tomography Program (CT), and the Magnetic Resonance Imaging Program (MRI). The Medical Imaging Programs provide high-quality education and clinical practicum to qualified students. The LBCC Medical Imaging Programs are responsive to the diverse needs of the local medical community. The DMI program specializes in the education and training that leads to entry-level employment as a competent, ethical health care professional, and either a Radiology Associate of Science degree or Certificate of Achievement awarded. The DMI program emphasizes the necessity of professional development and life-long learning. The Medical Imaging Programs at Long Beach City College adheres to non-discriminatory policies and provides equal opportunities in educational programs and to all students enrolled in these programs, regardless of ethnic, sexual, or socioeconomic background.

DMI PROGRAM GOALS:

1. Students will have the expertise and skills to competently and safely perform radiographic procedures.
2. Students will be able to demonstrate professional and ethical behaviors.
3. Students will develop the skills necessary to effectively communicate in a variety of healthcare settings.
4. Students will be able to demonstrate independent critical thinking and problem-solving skills.

DMI PROGRAM STUDENT LEARNING OUTCOMES

- 1) Diagram the photographic and digital process and define the technical factors utilized in medical image formation.
- 2) Distinguish the fundamental structure of matter, diagram the production of x-rays, and examine how different radiographic techniques effect the resulting image on a radiograph.
- 3) Assess how radiation effects body systems, differentiate between different types of radiation and their effects on human tissue, and formulate ways to decrease exposure.
- 4) Manage proper patient positioning of the skeletal system, cranium, and viscera to achieve industry standard radiograph.
- 5) Demonstrate ability to properly use all equipment required to produce a diagnostic radiograph; produce an industry standard and diagnostic radiograph.
- 6) Demonstrate understanding of the knowledge and skills necessary to function as professional, ethical, accurate, and reliable members of the Radiology health care team.

CLINICAL EXPERIENCE

This program requires the student to participate in clinical experience concurrent with DMIP classroom courses. Clinical responsibilities will be arranged by the Diagnostic Medical Imaging Program faculty and will include day, evening, and/or weekend assignments. The student receives no salary for this clinical experience but will receive course credit toward program completion. Clinical sites may require drug testing or other blood work. There may be exposure to hazardous materials and infectious pathogens in the clinical setting. Students will adhere to all safety and standard precautionary measures. Clinical experience starts as early as 6 am and end as late as 11 pm M-F and may include weekend assignments. Clinical rotations are from 24-32 hours per week. Total clinical experience is approximately 1,968 hours. See LBCC DMI Program clinical student manual for more information.

PROGRAM LENGTH AND COSTS:

The Radiologic Technology program costs approximately \$5,500 total over the 30-month program. This includes tuition (California residents), lab fees, required textbooks, exam prep subscriptions, and uniforms for clinical experience. Students must also provide reliable transportation to their assigned clinical facility. The DMI program length is a total of 30 months which includes five semesters with two summer and two winter intersessions.

LBCC COLLEGE APPLICATION PROCEDURE

LBCC College applications to become an LBCC college student are accepted on a continuous basis.

1. Apply for admission to the college through the Admissions Office (applications are available online at <https://www.lbcc.edu/admissions-aid>)
2. Submit transcripts from high school and previous college work to the Admissions Office and the School of Allied Health and Science.

REQUIRED PROGRAM PREREQUISITES:**

- Allied Health 60: Medical Terminology (or equivalent at another college)
- Allied Health 61: Patient Care or RADT153 at Cypress College (no other classes accepted +)
- Anatomy 41: Anatomy & Physiology or both Anatomy 1 and Physiology 1 (or equivalent at another College)

** All three prerequisites or equivalents must be completed, before applying, with a letter grade and within 5 years of the application date. Pass or no pass on the transcript will not be accepted.

+ AH61 **May be** waived as a prerequisite if an applicant holds a current LVN license, RN license, or Certified military combat medic, on a case-by-case basis. We do not waive AH 61 for CNA, MA, or EMT certifications.

DMI PROGRAM APPLICATION REQUIREMENTS

***Prospective students must apply to the college (see above) and become a registered LBCC College student first.

DMI Program Applications are not accepted until the following requirements are met:

1. Graduation from an accredited high school, or the equivalent.
2. Cumulative grade point average of 2.5 or higher in **ALL** college coursework.
3. Completion of three prerequisites - AH 60, AH 61, and ANAT 41 within five years of the DMI application date with a letter grade of "C" or better.
4. Completion of the LBCC GE plan as required by Long Beach City College ([Plan 2612 – A.S. Radiology](#)) **OR** possess an associate degree or higher from an accredited United States college or institution ([Plan 3612 Certificate of Achievement Radiology](#)).
5. Students **MUST** attend one of the DMI program monthly *information sessions prior* to application submission.
6. Students must pass an in-person (No Online proctored) ATI TEAS (test of essential academic skills) with a 62% or higher within three attempts and one year prior to applying.
7. Complete the Diagnostic Medical Imaging Program Online application and upload supporting documentation to the School of Allied Health and Science.
8. Students **MUST** keep the Admissions and Records Office and the School of Health and Science advised of their current e-mail address, home address, and telephone number and any name changes. All changes **MUST** be submitted in writing via email.
9. All applicants will be notified by email about the status of their applications.

DMI PROGRAM APPLICATION SUBMISSION

1. DMI program online application period is open from September 1st to September 30th - no exceptions.
2. All supporting documentation must be uploaded at the time of the application.
3. Only one application submission per year is allowed. Anyone who submits multiple applications in the same year will result in all their applications being disqualified for that year.
4. Modifications or changes to any application must be done in person by appointment only before the application period ends.

FALSIFICATION, FABRICATING, OMITTING, OR ALTERING DOCUMENTATION OR RECORDS, WHETHER WILLFULLY KNOWING OR NOT THAT RESULTS IN AN INCREASE OF POINT TOTAL WILL RESULT IN APPLICATION DISQUALIFICATION FOR THAT YEAR'S APPLICATION PERIOD AND POSSIBLY ANY FUTURE APPLICATION ATTEMPT.

DMI PROGRAM SELECTION PROCESS

In November, submitted applications will be reviewed and points totals will be calculated. We will then select 18-25 students with the highest points. The class size is based on the number of clinical placements available plus any returning students. Selected Students will be notified via email.

INFORMATION SESSIONS

The Diagnostic Medical Imaging Program (DMIP) holds monthly information sessions from September to June (EXCEPT JANUARY). Please look up times, days, and locations of the information session on the LBCC website under “explore our programs” then “Health” and then “DMI Program / Radiology”. You may also contact via email the Allied Health Office, DMIP director, Allied Health Coordinator, or the counseling office.

ATI TEAS EXAM (Test of Essential Academic skills)

We accept only in person proctored TEAS exam results from US accredited colleges or institutions. ***We do not accept online ATI TEAS test results.***

The TEAS exam results are valid for only one year. You must have a score of 62% or higher within one year of your application date to be considered. You may attempt multiple times within one year of your application, but only first exam score will be used to calculate points on your application.

GENERAL PROGRAM INFORMATION *

1. A strong command of the English language, both written and verbal, is essential for successful completion of the program.
2. Evidence of physical and emotional fitness by medical examination and ability to meet the physical demands as outlined in the LBCC DMI Program Policies
3. The radiography student must possess the capabilities of self-mobility, visual acuity, manual dexterity, oral communication, and hearing acuity and/or lip reading as outlined in the LBCC DMI Program Policies.
4. The radiography student must demonstrate the intellectual capacity to learn by retaining and recalling critical concepts and performing examinations both on campus and in clinical within the time constraints according to clinical objectives and community standard of care while administering safe patient care as outlined in the LBCC DMI Program Policies.
5. The radiography student must demonstrate critical thinking - the ability to use ethically sound professional reasoning in making justifiable decisions in relation to examinations, diagnosis, and management of the patient within the time constraints according to clinical objectives and community standard of care.
6. Service animals are not allowed during the clinical rotation and during on-campus skills education/assessment.
7. A current and clear background check, AHA BLS Provider CPR card, vaccinations, flu shot, TB test, LBCC physical health form, drug test, and malpractice liability insurance are required also during the Summer of the 1st year. (An unclear background may prevent the student from completing clinical requirements and jeopardize ARRT and CDPH certification.)
8. The Program is 30 months in length, beginning each Spring semester. Each student must complete approximately 2,048 hours of clinical plus lab practicum and approximately 1800 hours of didactic courses. Didactic courses are conducted Monday through Friday, between 6 AM and 10 PM

**** For more detailed information please refer to the Student Clinical Manual***

Upon Acceptance to the DMI Program

Every accepted applicant must provide a current criminal background check, complete vaccinations, obtain an AHA Healthcare Provider BLS CPR card, obtain HPSO liability insurance, complete a drug test, complete the health evaluation form, be able to perform essential physical functions, and complete a latex allergy form. Additional information regarding this is provided at program acceptance. The background check will include criminal offense, criminal history, sex offender check, and social security trace. (An unclear background may prevent the student from being accepted into one of our affiliated clinical facilities as well as completing clinical requirements.) Students are responsible for providing themselves with reliable transportation to our clinical affiliates. The LBCC DMI Program clinical sites are within 23 miles of the LBCC LAC Campus.

Successful DMI program completion requires all of the following:

- 1) Successful completion of all required DMI Program courses and prerequisites as outlined in catalog /curriculum guide
- 2) Successful completion of approximately 2048 clinical plus practicum lab hours, and
- 3) Successful completion of all requirements for an associate in science degree as required by Long Beach City College (Plan 2612) **OR** possess an associate degree or higher (Plan 3612).

ELIGIBILITY FOR THE ARRT EXAM

Upon Program completion, the DMI Program graduate is eligible to take the American Registry of Radiologic Technologists (ARRT) national certification exam. Through the California Department of Public Health –Radiological Health Branch (CDPH-RHB), California CRT certification and Fluoroscopy Permit are awarded upon passing the ARRT Radiography exam, applying for both the CRT certification plus Fluoroscopy permit, and making payment for both. Once obtaining the ARRT, CRT, and Fluoroscopy permit, the DMI program graduate will have the right to use the title “Registered Radiologic Technologist” R.T. (R) CRT. The LBCC DMI program graduates who possess their ARRT, CRT, and Fluoroscopy permit certification may pursue further education through an educational institute or “on the job” training in Ultrasound, Nuclear Medicine, Radiation Therapy, Interventional Radiology, Cardiac Cath Lab, Mammography, MRI, CT, Management, or Radiography education. Information about the graduate courses/schools may be obtained at www.arrt.org or www.asrt.org or the California Department of Public Health at www.cdph.ca.gov.

In addition, eligibility for the ARRT examination requires the candidate to be of good moral character. Conviction of a misdemeanor or felony may disqualify the candidate. An Ethics pre-application review may be pursued by contacting the ARRT at www.ARRT.org. There are specific parameters regarding the charge or conviction of a felony or misdemeanor. An applicant may contact the ARRT to determine if he/she will be disqualified due to legal circumstances. The process to determine eligibility is titled "ETHICS PRE- APPLICATION REVIEW" and the cost is approximately \$100.00

PROGRAM ACCREDITATION

The DMI program is approved by the [California Department of Public Health – Radiologic Health Branch](#) (CDPH-RHB). Each clinical facility affiliated with the DMI Program must maintain compliance with all regulatory requirements of the CDPH- RHB. Each facility must prominently display the CDPH-RHB CLINICAL AFFILIATION NOTICE (CAN). The DMI program is accredited by the Accrediting Commission of Community and Junior Colleges of the Western Association of Schools and Colleges. Graduates of the DMI Program qualify to sit for the American Registry of Radiologic Technology (ARRT) examination. JRCERT Accreditation status for the DMI Program is “application in progress”.

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[California Department of Public Health – Radiologic Health Branch](#)

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JRCERT: Joint Review Committee on Education in Radiologic Technology

20 N. Wacker Drive, Suite 2850

Chicago, IL 60606-3182

312-704-5300

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[Visit jrcert.org](http://Visitjrcert.org)

DOES THIS PROGRAM TRANSFER?

The DMI Program, under LBCC, currently maintains a matriculation agreement with California State University and University of California systems. Students have also been successful in continuing their radiology education for a B.S. or M.S. degrees (Radiology option) at California State University Dominguez Hills.

The LBCC DMI program does not accept transfer students with advanced standing. Our program does not give course credit / equivalency for other radiology programs' didactic or clinical courses. All applicants are subject to the same admissions process.

SALARY RADIOLOGIC TECHNOLOGIST:

California Region: Beginning \$72,000 - \$93,000 annually. \$35 - \$45/hour. Chief technologists: \$110,000 - \$140,000/year

*** Long Beach City College also offers Certificates in Computed Tomography (CT) and Magnetic Resonance Imaging (MRI). Applicants to the CT or MRI Program must be a certified ARRT (R), CRT, Fluoroscopy permit holder.*

Contact

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