



Entry-Level Bachelor of Science in Radiation Sciences (Medical Radiography)

Bachelor's Degree with Radiography and Advanced Specialty Options.

The Entry-Level Bachelor of Science in Radiation Sciences (BSRS) is a full-time, 3-year program that includes online and on-campus classes. This program is designed to provide students with a pathway to satisfy educational requirements and apply for the ARRT credential in Radiography. Didactic classes are offered on-campus and online, either synchronously or asynchronously. Clinical classes are offered in-person at one of the approved clinical education locations. Additionally, this program offers students opportunities to prepare for advanced specialty areas such as Cardiac Interventional Radiography (CI), Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Mammography (M), Vascular Interventional Radiography (VI), and education and management.

What is Medical Radiography?

Medical Radiography, also known as Radiologic Technology, is a discipline where credentialed professionals known as radiologic technologists use medical imaging equipment to produce diagnostic images of body structures. The primary functions of radiologic technologists are to use As Low as Reasonably Achievable (ALARA) principles to position patients, determine exposure factors, manipulate medical imaging equipment, evaluate radiographic image quality, provide patient comfort, and oversee patient and medical team radiation protection.

Entry-Level BSRS Advanced Specialty Areas

In consultation with the advisor, students have the opportunity to select advanced specialty courses for study in year three. Some of these specialty areas include Cardiac Interventional Radiography (CI), Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Mammography (M), Vascular Interventional Radiography (VI), and education and management. Completion of advanced specialty courses does not guarantee satisfying minimum ARRT post primary pathway requirements for credentials in these advanced specialty areas.

Loma Linda University and the Department of Radiation Technology cannot guarantee graduates gainful employment or earning a passing score on professional credentialing examination after completing all program and degree requirements, and earning the BSRS degree. Once graduates have exhausted their attempts or time to pass a professional credentialing exam, the Department of Radiation Technology is unable to offer remediation required to regain eligibility for professional credentialing exams.

Program Goals:

Upon completion of the program, graduates should be qualified to:

- demonstrate clinical competence.
- communicate effectively.
- refine skills related to critical thinking, information literacy, quantitative reasoning, oral and written communication.
- apply concepts from advanced specialty courses.
- demonstrate comprehension of emotional intelligence and moral leadership concepts
- evaluate trends in healthcare.

Components of the Entry-Level BSRS Program:

- General education (can be transferred prior to beginning the BSRS program or completed during matriculation in the BSRS program).
- Professional core
- BSRS program core
- Religion
- Clinical affiliation
- Advanced specialty classes
- Professional portfolio and service learning

Clinical Training and Essential Job Functions:

Clinical locations are currently available in locations such as Loma Linda, Redlands, San Bernardino, Hemet, Palm Springs, Riverside, Apple Valley, Murrieta, Los Angeles, and the Imperial Valley. Students are expected to provide their own transportation to clinical training locations throughout the program. Traveling to certain clinical sites may involve at least a 60-mile drive from Loma Linda University. Students are responsible for all costs and availability of transportation.

Essential job functions and technical standards in the field of medical imaging are tasks, duties, and responsibilities expected to accomplish the job's purpose and objectives. Some of the categories of essential functions include physical, vision and hearing, mental, communication, and professional. Refer to program webpage to learn more about essential functions: <https://alliedhealth.llu.edu/academics/radiation-technology/radiation-sciences-programs/entry-level-radiation-sciences-bs>

Where to Begin:

- Review the program website and FAQ page (www.llu.edu/radiography).
- Attend a free online information session.
- Complete prerequisite courses and units required.
- Apply online: llu.edu/apply.

Application Window:

Applications are accepted between October 1 and February 15.

Interview & Application Requirements:

Applicants must complete a minimum of 45 quarter units (30 semester units) with a cumulative GPA of 2.5 or higher and a prerequisite GPA of 3.0 or higher, submit official transcripts, complete eight hours of career observation, provide three references, and submit an admissions essay. Official transcripts can be submitted after applying but must be received to be considered for an interview even if courses are still in progress. More information is available on the program webpage.

Currently, this program is not eligible to accept international students. For more information, please email intlstdsrv@llu.edu.

Curriculum:

General Education, Prerequisite, and Transfer Work (min. 45 quarter units):

- **English Composition Sequence:** Usually 2 semesters or 2-3 quarters in college
- **Oral Communication, Interpersonal Communication, or Public Speaking:** One quarter/semester in college
- **Medical Terminology:** One quarter/semester in college
- **Human Anatomy and Physiology:** Complete sequence, both with a lab
- **General Education/Electives:** Applicants will also need to complete a few non-remedial college courses in addition to the courses listed above prior to beginning the program to meet the minimum overall 45 quarter units (30 semester units) required to transfer. Recommended courses per LLU's general education requirements are outlined below.

Domain 1: LLU Religion (completed in the program)

Domain 2: Arts & Humanities (minimum of 16 quarter or 11 semester units in 3 different content areas selected from civilization/history, art/music, literature, language, philosophy, religion, or general humanities)

Domain 3: Scientific Inquiry & Quantitative Reasoning (minimum of 12 quarter or 8 semester units - a statistics course in this domain will be complete during matriculation in the BSRS program)

Domain 4: Social Sciences (minimum of 12 quarter or 8 semester units in 2 different content areas selected from anthropology, economics, geography, political science, psychology, or sociology - cultural diversity requirement met in program)

Domain 5: Written & Oral Communication (minimum of 9 quarter or 6 semester units - domain fulfilled in its entirety with the English composition sequence and communication prerequisites listed above; no additional courses/units are needed in this domain)

Domain 6: Health & Wellness (minimum of 2 quarter or 1 semester unit(s) with 1 course in health or nutrition required and 2 PE courses totaling a minimum of 1 quarter unit required)

A minimum of 192 quarter units overall is required to earn this baccalaureate degree at Loma Linda University.

Additional Program Requirements:

Applicants are required to complete a background check and possess a current Health Care Provider CPR card offered by the American Heart Association upon admission into the program. To remain in the program, students must maintain a 2.5 GPA, pass three program milestones, and adhere to the program's professional code of conduct. Students at some clinical sites may need to complete drug or other testing and immunizations.

Program Course Analysis:

- | | |
|------------------------------|--------------------|
| • Professional didactic core | 46 units |
| • BSRS didactic core | 30 units |
| • Religion | 12 units |
| • Clinical affiliation | 23 units |
| • Advanced specialty classes | 37 units (minimum) |

Minimum units for degree (including general education, prerequisites, and program courses): 192

Advanced Specialty Courses:

In consultation with the program advisor, students have the opportunity to select classes in advanced specialty areas to fulfill the minimum degree and program requirements. These classes include areas such as: Cardiac Interventional Radiography (CI), Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Mammography (M), Vascular Interventional Radiography (VI), education, and management. Completion of advanced specialty courses does not guarantee satisfying minimum ARRT post primary pathway requirements for credentials in these advanced specialty areas.

This program incorporates on campus, online, and hybrid instructional methodologies.

Eligibility for ARRT Certification(s):

Eligibility for the ARRT certification exam may be affected if the applicant has a prior felony or misdemeanor conviction. Prior to applying to this program, the applicant should contact the ARRT at (651) 687-0048 to determine if eligibility will be granted.

Accreditation:

Loma Linda University is regionally accredited by the Western Association of Schools and Colleges, Accrediting Commission for Senior Colleges and Universities. The radiography program at Loma Linda University holds an 8-year accreditation designation by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, 312-704- 5300.

The BSRS program is also approved by the Radiologic Health Branch (RHB) of the state of California, Department of Public Health, MS 7610, P.O. Box 997414, Sacramento, CA95899- 7414, 916-327-5106.

Program Directors:

Professional Core Program Director: Brenda L. Boyd, PhD, RT(R)(M) (ARRT)
BSRS Program Core Program Director: Michael F. Iorio, PhD, MPA, RT(R) (CT) (ARRT) CRT

Contact Information:

E-mail: studyradsci@llu.edu

Office: (909) 558-4931

<https://alliedhealth.llu.edu/academics/radiation-technology>

Housing:

Students under the age of 21 who are in undergraduate programs are required to live on campus unless they are married or living with their parents. A student who desires to live off campus, but who does not meet the necessary qualifications, must file a petition with the Dean of Student Affairs in advance of registration by calling 909-558-4510.

Financial Information:

Tuition and fees are subject to change each year, so please review LLU's Find a Program [website](#) for the most up-to-date information on the cost of attendance. Students should be prepared to be responsible for all tuition, fees, books, living expenses, and transportation. Financial aid is available. Loan application can begin before being accepted. For financial aid information, call 909-558-4509 or e-mail finaid@llu.edu.

Updated 08/22/2024



LOMA LINDA
UNIVERSITY

LLU at a Glance

>> Founded in 1905 >> A Seventh-day Adventist institution integrating health, science, and Christian faith >> Offers over 200 programs in the health sciences >> Houses eight schools: Allied Health Professions, Behavioral Health, Dentistry, Medicine, Nursing, Pharmacy, Public Health, and Religion >> About 4,000 students >> Over 1,300 faculty >> 2,000 professional researchers >> \$46 million dollars in private and public grants generated each year >> Many service learning opportunities

Loma Linda University
Loma Linda, California 92350
909.558.4931
Website: www.llu.edu
www.facebook.com/llualliedhealth