



University Certificate in Cardiac & Vascular Imaging (CVI)

Program Overview

Cardiac Interventional (CI) and Vascular Interventional (VI) technologists work in a highly specialized field operating sophisticated imaging equipment. This technology provides detailed fluoroscopic images of the human body, assisting physicians with quality patient diagnosis and treatment.

There are three pathways available within the Cardiac and Vascular Imaging Program. All three tracks are full-time. A student should expect to dedicate at least 40 hours per week to didactic and clinical courses beginning in the autumn.

Cardiac Interventional Certificate Only (CI)

- Three quarters - 9 months

Vascular Interventional Certificate Only (VI)

- Three quarters - 9 months

Cardiac and Vascular Imaging (CVI)

- Four quarters - 12 months
The CVI program can be used as an emphasis for the Radiation Sciences, BSRS program.

Clinical experience involves up to four eight-hour days per week. All didactic courses are online. Clinical sites are available in a variety of regions in Southern California. However, LLU cannot guarantee that the student's clinical rotation will be close to their residence.

Program outcomes

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

1. Model the ethics, values, and attitudes of special imaging professionals in communication, interactions, and professional behaviors.
2. Demonstrate clinical competency, professional skills, and life-long learning in the chosen special imaging modality.

The CVI student profile

1. Is enthusiastic and interested in maintaining high standards of academics, clinical performance, and patient care.
2. Possesses a broad knowledge of human anatomy and computer skills.
3. Demonstrates strong academic performance in science and related courses.
4. Is detail oriented and able to work under pressure while demonstrating critical-thinking and problem-solving skills.

Accrediting Associations

Program requirements

- Current ARRT registry in radiation technology (RT)
- Current California (CRT) license
- Current BLS card with the American Heart Association
- A minimum G.P.A. of 2.5 maintained in all didactic and clinical course work.
- Venipuncture is highly recommended
- 1 year of professional experience in imaging is highly recommended

Observation experience

A minimum of 12 hours of career observation in cardiac and/or vascular imaging is required. The career observation form is available as a download from the forms page on the Web site.

Application

Applications are accepted January 1st through June 1st.

Applications should include a statement of purpose, application fee, three recommendations, and official transcripts. Students must request those official transcripts from all prior colleges/universities and have them sent directly to the School of Allied Health Professions admissions office at Loma Linda University.

The applicant should submit meaningful recommendations from prior teachers, work supervisors, or health professionals who are knowledgeable about their qualifications. An applicant who is completing a program in radiologic technology prior to the start of the program may apply if s/ he will complete ARRT, CRT, and BLS requirements by the program start date.

Applicants should submit applications early as there are a limited number of slots available for interviews.

Interviews

CVI interviews are conducted in June or July. All applicants will be interviewed by the program director and representatives of the School of Allied Health Professions. Applicants residing in southern California should plan for a personal interview on campus at Loma Linda. Applicants will be notified by phone and/or e-mail of their interview schedule. Interviews are rated in the following four areas:

- Work experience or training background
- Recommendations
- Academic record
- Communication skills, knowledge, motivation, etc.

Selection

After all applicants have been interviewed, the selection committee for the Special Imaging Program (CVI) meets to make the final selections. Selections are usually decided by the middle of July, and confirmation of each decision is mailed to the respective applicant from the Office of Admissions for the School of Allied Health Professions.

Special Imaging Curriculum (CVI)

Autumn Quarter

	Units
CEPT 245 Cardiovascular Anatomy and Physiology ¹	3.0
CEPT 251 Cardiac Electrophysiology and Rhythm Recognition I ¹	2.0
RTSI 345 Cardiac/Interventional Procedures ¹	3.0
RTCH 456 CI Clinical Affiliation ^{1,3,4}	3.0

Winter Quarter

AHCJ 402 Pathology I ^{1,2}	4.0
CEPT 252 Cardiac Electrophysiology and Rhythm Recognition II ¹	2.0
RELE XXX Religion course TBD ^{1,2}	2.0
RTSI 351 Vascular/Interventional Procedures I ²	3.0
RTCH 456/7 CI Clinical Affiliation or VI Clinical Affiliation ^{1,3,4}	3.0

Spring Quarter

RTSI 344 Interventional Pharmacology ^{1,2}	4.0
RTSI 360 Cardiac Imaging Review ¹	1.0
RTSI 356 Vascular Anatomy & Physiology ²	3.0
RTCH 456/7 CI Clinical Affiliation ^{1,3,4} or VI Clinical Affiliation ^{2,3,4}	3.0

Summer Quarter

RTSI 352 Vascular/Interventional Procedures II ²	3.0
RTSI 359 Vascular Imaging Review ²	2.0
RTCH 457 VI Clinical Affiliation ^{2,3,4}	3.0

Overall Total Units 41.0

¹Required for cardiac interventional (CI). Total units 28

²Required for vascular interventional (VI). Total units 27

³Multiple registrations required to meet unit requirement.

⁴Students pursuing both CI & VI are required to complete 12 units (6 units of RTCH 456 Cardiac Interventional Clinical Affiliation and 6 units of RTCH 457 Vascular Interventional Clinical Affiliation). Students pursuing only one emphasis (i.e., CI or VI) will complete 9 affiliation units in the designated emphasis.

Contact Information

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For additional questions, email studyradsci@llu.edu or visit <https://alliedhealth.llu.edu/academics/radiation-technology/special-imaging-programs/special-imaging-cardiac-vascular-imaging-cert>

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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

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