



## 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.

The Cardiac and Vascular Imaging Program is a full-time, twelve-month certificate program that requires four quarters beginning in the autumn. During the program, students take formal coursework along with clinical instruction. There are no arrangements for part-time or evening status. Clinical sites are available in a variety of regions in Southern California. However, LLU cannot guarantee that the student will be placed close to his/her residence.

The program's load requires 40 hours per week, which includes didactic and clinical experiences. Clinical experience involves up to four eight-hour days per week. All of the didactic is online. This program may also be taken as an emphasis in the Radiation Sciences, BS program.

Students will be required to submit current immunization records and undergo a background check during the registration process. For information regarding immunizations, contact student health services <http://www.llu.edu/central/ssweb/index.page>. Students will be responsible for paying any fees associated with immunizations and background checks.

Loma Linda University and the Department of Radiation Technology cannot guarantee employment.

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 as long as s/he has completed ARRT, CRT, and BLS requirements by the program start date.

### Program outcomes

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

1. Demonstrate clinical competence in cardiac interventional radiography and vascular interventional radiography.
2. Demonstrate competence in advance clinical life support (ACLS)
3. Demonstrate effective communication in the health sciences.

### 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 8 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 procedure

1. Applications are accepted starting January of each year.
2. Deadline for applications is April 1st
3. Application should include a statement of purpose, application fee, three recommendations and transcripts. Official transcripts must come directly from other schools to the School of Allied Health Professions admissions office.
4. 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 <sup>1</sup>	3.0
CEPT 251 Cardiac Electrophysiology and Rhythm Recognition I <sup>1</sup>	2.0
RTSI 345 Cardiac/Interventional Procedures <sup>1</sup>	3.0
RTCH 456 CI Clinical Affiliation <sup>1,3,4</sup>	3.0

### Winter Quarter

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

### Spring Quarter

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

### Summer Quarter

RTSI 352 Vascular/Interventional Procedures II <sup>2</sup>	3.0
RTSI 359 Vascular Imaging Review <sup>2</sup>	2.0
RTCH 457 VI Clinical Affiliation <sup>2,3,4</sup>	3.0

Overall Total Units 41.0

<sup>1</sup>Required for cardiac interventional (CI). Total units 28

<sup>2</sup>Required for vascular interventional (VI). Total units 27

<sup>3</sup>Multiple registrations required to meet unit requirement.

<sup>4</sup>Students 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](mailto:studyradsci@llu.edu) or visit <https://alliedhealth.llu.edu/academics/department-radiation-technology>

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LOMA LINDA  
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## 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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