

CARDIAC AND VASCULAR IMAGING (CVI) – CERTIFICATE

Program director

Kate Cockrill

Cardiac interventional and vascular interventional 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, 12-month certificate program that requires four quarters beginning in autumn. During the program, students receive structured 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. The University cannot guarantee that the student will be assigned close to their residence.

The program's load requires 40 hours per week, which includes didactic and clinical experience, the latter involving up to four 8-hour days per week. Didactic courses are 100 percent online. Clinical affiliation courses require the student to be at the affiliated hospitals.

Students will be required to submit current immunization records and undergo a background check during the registration process. Further details regarding these two requirements can be found in the Admission Policies and Information (<http://llucatalog.llu.edu/about-university/admission-policies-information/#admissionrequirements>) section of this CATALOG. Students will be responsible for paying fees associated with immunizations and background checks. Loma Linda University and the Department of Radiation Technology cannot guarantee employment.

Program learning outcomes

At the end of this program, the graduate should be able to:

1. Demonstrate clinical competency in cardiac interventional radiography and/or vascular interventional radiography;
2. Provide competent advanced clinical life support;
3. Effectively communicate in the health sciences.

The CVI student profile

1. 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. Detail-oriented and able to work under pressure while demonstrating critical-thinking and problem-solving skills.

Admissions

In addition to Loma Linda University (<http://llucatalog.llu.edu/about-university/admission-policies-information/#admissionrequirements>) and School of Allied Health Professions admissions requirements (<http://llucatalog.llu.edu/allied-health-professions/#generalregulationstext>), the applicant must also complete the following requirements:

- Recommendations: meaningful recommendations must be from prior teachers, work supervisors, or health professionals who are knowledgeable about your qualifications
- Current ARRT registry in Radiography (R)
- Current California Certified Radiologic Technologist (CRT) license
- Current Basic Life Support (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
- One year of professional experience in imaging is highly recommended

An applicant who is completing a program in radiologic technology prior to the start of the program may apply as long as they have completed ARRT, CRT, and BLS requirements by the program start date. Prospective students must reside (for the entirety of their degree) in a state that has authorized LLU to teach distance education. Discuss additional clinical sites with the program director. Please refer to the LLU State Authorization (<https://home.llu.edu/llu-state-authorization/>) webpage for additional information

Observation experience

A minimum of eight 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 website.

Interviews

Cardiovascular and Interventional (CVI) Program 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 email of their interview schedule. Applicants are rated in the following four areas:

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

Selection

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

Application deadline

- Applications are accepted starting January of each year.
- Deadline for applications is June 30th
- Applicants should submit applications early as there are limited number of slots available for interviews.

Program requirements

First Year

Autumn Quarter		Units
CEPT 245	Cardiovascular Anatomy and Physiology	3
CEPT 251	Cardiac Electrophysiology and Rhythm Recognition I	2
RTSI 345	Cardiac/Interventional Procedures	3
RTSI 975 ¹	Cardiac/Interventional (CVI) Affiliation	3
Winter Quarter		
AHCJ 402	Pathology I	4
CEPT 252	Cardiac Electrophysiology and Rhythm Recognition II	2
RELE 457	Christian Ethics and Health Care	2
RTSI 351	Angio/Interventional Procedures I	3
RTSI 975 ¹	Cardiac/Interventional (CVI) Affiliation	3
Spring Quarter		
RTSI 344	Interventional Pharmacology	4
RTSI 356	Vascular Anatomy and Physiology	3
RTSI 360	Cardiac Imaging Review	1
RTSI 975 ¹	Cardiac/Interventional (CVI) Affiliation	3
Summer Quarter		
RTSI 352	Angio/Interventional Procedures II	3
RTSI 359	Vascular Imaging Review	1
RTSI 975 ¹	Cardiac/Interventional (CVI) Affiliation	3
Total Units:		43

¹ Multiple registrations required to meet unit requirement.

Normal time to complete the program

One (1) year (four [4] academic quarters) – based on part-time enrollment