



Bachelor of Science in Radiation Sciences Emphasis in Cardiac and Vascular Imaging

Have You Considered A Career in Interventional Radiology?

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 area of emphasis within the BS in Radiation Sciences (BSRS) program is a full-time, 18-month program that requires six quarters beginning in the summer. 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. Didactic courses are online.

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 at <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 may apply as long as she/he has completed ARRT, CRT, and BLS requirements by the program start date.

School certificates in Cardiac Interventional or Vascular Interventional are available. Please discuss these options with the program director.

PROGRAM OUTCOMES

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

1. Demonstrate clinical competence in cardiac interventional radiology and vascular interventional radiology.
2. Demonstrate competence in Advanced Clinical Life Support (ACLS)
3. Demonstrate effective communication in the health sciences.
4. Is detail oriented and able to work under pressure while demonstrating critical-thinking and problem-solving skills

PROGRAM REQUIREMENTS

- Current ARRT registry in radiation technology (RT)
- Current California (CRT) license
- Current BLS card with the American Heart Association
- A minimum GPA of 2.5 maintained in all didactic and clinical coursework
- Venipuncture in highly recommended
- 1 year of professional experience in imaging is recommended
- An associate degree (or a minimum of 72-96 degree transferable units per program director approval.)

OBSERVATION EXPERIENCE

A minimum of eight hours 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 year round for the BSRS program
2. Applications 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.
3. There are limited clinical slots available.

INTERVIEWS

Interviews are conducted in February and March. 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.

Financial Information

Tuition and fees are subject to change each year. Students are 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.

I. Curriculum

Prerequisite/Co-requisite

A maximum of 70 semester or 105 quarter units (didactic only) from an accredited junior college will be accepted as transfer credit. Students who have completed a hospital training program are allowed up to 50 junior college-level quarter units of academic credit on the basis of their registry certificate. Students should fall within 12 quarter units of completion of general education (GE) requirements in order to be considered for the Bachelor of Science core program OR have developed an academic plan with the program director. For a complete listing of general education requirements, see LLU General Education Requirements. Following is a list of specific requirements and the general education domain to which they apply:

Domain 1: Religion and Humanities (20 quarter or 14 semester units)

Humanities (12 – 20 quarter or 8-14 semester units)

Selected from at least three of the following content areas: Civilization/history, Fine arts, Performing/visual arts (not to exceed 4 quarter credits), Literature, Modern language, Philosophy, General humanities elective.

Religion (0-8 quarter or 0-6 semester units)

An applicant who has attended a Seventh-day Adventist college or university is required to have taken 4 quarter units of religion from an Adventist institution for each full year (48 quarter units/32 semester units) of attendance at an Adventist college or university. If the applicant has not attended an Adventist institution, no religion units are required. In either case, however, the applicant must have completed 20 quarter or 14 semester units in Domain 1: Religion and Humanities.

Domain 2: Scientific inquiry and analysis (24-32 quarter or 16-22 semester units)

Natural Sciences (minimum of 12 quarter or 8 semester units)

Must be selected from two content areas.

Intermediate Algebra or high school Algebra II (not counted toward domain total) Two years of high school mathematics with grades of C or above, or intermediate algebra in college (does not count toward total units required for this domain or the 192 units required for the degree)

Human anatomy and physiology with laboratory, one semester/quarter minimum; or general biology with laboratory, one semester/quarter minimum.

Remaining units may be selected from the following content areas: biology, chemistry, geology, mathematics, physics, and statistics.

Social Sciences (minimum of 12 quarter or 8 semester units)

Units must be selected from two content areas: anthropology, economics, geography, political sciences, psychology, and sociology

Note: The B.S. degree program is approved to meet the cultural diversity requirement of the University in lieu of cultural anthropology.

Domain 3: Communication (9-13 quarter or 6-9 semester units)

English composition (complete sequence)

Remaining courses may be selected from the following content areas: computer information systems, critical thinking, and public speaking.

Domain 4: Health and Wellness (2-6 quarter or 1.5-4 semester units)

Personal health or nutrition (one course)

Physical education (two separate physical activity courses)

Domain 5: Electives

To meet the minimum requirement of 192 quarter units required for matriculation, electives from the previous four domains or B.S. degree didactic emphasis may be selected. For more information regarding GE requirements for graduation, see LLU General Education Requirements.

Contact Information:

Program Director: Rob Cruise E-mail: jcruise@llu.edu
Office: (909) 936-4135

II. Program Requirements

Core (30 units)

AHCJ 493	Senior Portfolio I	3
RTCH 387	Writing for Health-Care Professionals	3
AHCJ 318	Emotional Intelligence & Leadership for HC Prof.	3
HCAD 305	Health-Care Communication	3
RTCH 467	Management of a Radiologic Service	3
RTCH 385	Radiologic Trends in Health-Care	2
AHRM 475	Health-Care Research and Statistics	4
RTCH 464	Moral Leadership	4
RTCH 325	Applications for Managers	2
AHCJ 494	Senior Portfolio II	3
Religion (4-16 units)¹		
RELT 423	Loma Linda Perspectives (Choose one course)	2
or RELT 436	Adventist Heritage and Health	
or RELT 437	Current Issues in Adventism	
or RELT 406	Adventist Beliefs and Life	
REL 4	Religion Elective	6
Area of emphasis		12-24
Electives		0-34
Total units		50-96

¹Students are required to take one of the required RELT courses listed above. Total units required are based on the percentage of course work from an SDA college/university.

III. BSRS CVI Area of Emphasis Curriculum

Quarter	Course	Units	
Sum 1	AHCJ 493 Senior Portfolio I	3	
	RTCH 387 Writing for Healthcare Professionals	3	
	AHCJ 318 Emotional Intelligence & Leadership	3	
	HCAD 305 Health Care Communication	3	
	RE__religion	2	
	total units for summer 1	14	
Win 1	RTSI 344 Interventional Pharmacology	4	
	AHCJ 402 Pathology I	4	
	Cardiac/Interventional Procedures	3	
	RTSI 975 Clinical Affiliation*	6	
	total units for Winter 1	19	
Spr 1	RTSI 356 Vascular Anatomy & Physiology	3	
	RTSI 351 351 Angio/Interventional Procedures I	3	
	RTCH 385 Trends in Healthcare	2	
	RE__Religion	2	
	RTSI 975 Clinical Affiliation*	6	
	total units for spring 1	17	
Sum 2	RTSI 352 Angio/Interventional Procedures II	3	
	RTMR 451 Management of a Radiology Service	3	
	HCAD 414 Sustainability for Healthcare Managers	3	
	RE__Religion	2	
	RTSI 975 Clinical Affiliation*	6	
	total units for summer 2	17	
Fall 2	RTSI 358 CVI Review	2	
	RTCH 464 Moral Leadership	4	
	AHCJ 382 Portfolio II	3	
	RE__Religion	2	
	RTSI 975 Clinical Affiliation	6	
	total units for fall 2	17	
	Total Units in Program	99	

*Repeated registrations required to complete total units. Students are only charged 2 units per quarter.

**RTSI 974 is an additional quarter of clinic available to students who have not met program requirements. This additional time will be at the direction of the school or at the request of the student.

updated 08/01/17



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