



## Associate of Science in Cardiac Electrophysiology Technology (Online)

### Have You Considered a Career in Cardiac Electrophysiology Technology?

Electrophysiology (EP) is an emerging healthcare science and therapy. EP is a subspecialty of cardiology that focuses on diagnosing and treating cardiac arrhythmias. The cardiac electrophysiology technologist, who comprise a variety of allied health professionals (RT, RN, CVT, EMT, RRT, and PA), assists an EP cardiologist during diagnostic and invasive EP / Rhythm Management procedures, including programmed electrical stimulations, sterile scrub technique, electro-anatomical 3D mapping, catheter ablation for cardiac arrhythmias, and device implantations for cardiac rhythm management, such as pacemakers and other advanced devices.

### Education and Training

Students in the cardiac electrophysiology technology (CEPT) online program will learn EP theory, principles, and various techniques, and will be trained to utilize the latest advancements in EP equipment/technology and cardiac rhythm management. Students will obtain at least 800 clinical hours by rotating to several Southern California clinical sites while in the on-line program. The Associate of Science program is 12 months long, and the clinical sites are assigned by the Program Director. The A.S. in Cardiac Electrophysiology Technology program is comprised of online coursework. Clinical hours can be accrued if the student is working in an established EP/Rhythm Management lab. This program will prepare students for RCES & IBHRE Certifications.

Graduates of the CEPT program will be qualified to take the Registered Cardiac Electrophysiology Specialist (RCES) credentialing examination offered by Cardiovascular Credentialing International (CCI), and the Allied Health Professional EP Exam offered by the International

Board of Heart Rhythm Examiners (IBHRE). After completion of either certification examinations, the graduate will be qualified for employment with not just acute care hospital CCL/EP labs, but also hospital or physician rhythm management clinics clinical support, and sales positions with various bio-technology companies. The development of this program is in direct response to the needs expressed by hospitals, physicians, and bio-tech companies to address the current demand for qualified EP allied health professionals to meet the emerging challenges of the healthcare science and therapy of electrophysiology. Currently, only 8-10% of patients in the U.S. are being properly diagnosed and treated for atrial fibrillations, which is just one segment of EP patients.

### Clinical Training & Essential Job Functions

Students will complete didactic coursework (61.5 quarter units) and at least 800 hours of clinical education in the cardiac cath lab/EP lab. Physical demands include lifting, carrying, bending, manipulation of equipment, patient assistance, walking and prolonged standing, the ability to read written orders, advanced computer systems screens, patient records, equipment controls, and the ability to communicate with patients, physicians, and coworkers. Mental and emotional demands include critical decision making, interaction with patients of different ages and health conditions, maintaining patient confidentiality, and being able to work under pressure in stressful conditions.

**Loma Linda University Requirements:** To be eligible for admission the applicant must complete a minimum of 39 quarter-units (26 semester units) at an regionally accredited college or university. The minimum subject requirements for the A.S. program are:

**RELIGION:** For students who attended or are enrolled in an Adventist college 4 qtr-units per year are required (a maximum of 8 quarter units may be applied).

**NATURAL SCIENCES:**

Human Anatomy & Physiology with lab (complete sequence)  
Intro Physics/lab or H.S. level physics  
College Algebra  
Medical Terminology

**SOCIAL SCIENCES:**

Select one class from the following:  
General Psychology  
Sociology  
Cultural Anthropology

**COMMUNICATION:**

Freshman Composition, complete sequence

Electives must meet minimum total of 39qtr/26 sem. units with a GPA of 2.4 or higher

**OBSERVATION EXPERIENCE RECOMMENDATION:**

Observation hours in a CEP department (minimum of 2 exams observed).

**“C minus” grades are not transferable for credit**

You can find the courses we recommend for your college by accessing the “Transfer Patterns” on our website at: <http://www.llu.edu/llu/sahp/transfer/index.html>

**Accreditation**

Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT). Commission on Accreditation of Allied Health Education Programs 1361 Park Street, Clearwater, FL 33756; (727) 210-2350; [www.caahep.org](http://www.caahep.org).

**How to apply**

Applications are accepted from January 1 to June 30, with priority application by March 31, of each year for Fall acceptance. Apply online at [www.llu.edu](http://www.llu.edu). Bulletins may be viewed on our website.

You may complete prerequisite course work at any regionally accredited college or university before admission to a program in the School of Allied Health Professions. A high school diploma or GED is required for acceptance.

TOEFL or IELTS (or equivalent English language proficiency examination) scores for applicants whose native language is not English or whose secondary education was received outside the United States (refer to: <http://www.llu.edu/allied-health/sahp/internationalstudent.page>). Any student with a score on the TOEFL writing test (TWE) of less than 4, will be required to do remedial work during the program and retake the TOEFL test.

**Financial Aid**

Apply early for financial assistance – even before receiving your acceptance into the program. You may begin your financial aid process on October 1. The Free Application for Federal Student Aid (FAFSA) can be found online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). It’s best to apply before March each year. You will need your previous year’s tax information as part of the application for aid.

Applications for Cal Grants (California residents only) must be postmarked no later than March 2.

LLU’s Student Financial Aid office will help you obtain the necessary applications and guide you through the process of applying for aid. Contact them at: (909) 558-4509

**Housing**

On-campus housing is available for men and women. For information on the men’s dormitory (Daniell’s Residence), call (909) 558-4562. For information on the women’s dormitory (Lindsay Hall), call (909) 558-4561.

**Contact Information**

Program Director

**Rob Cruise**

Office: (909) 936-4135

E-mail: [jrcruise@llu.edu](mailto:jrcruise@llu.edu)

For more information e-mail [studyradsci@llu.edu](mailto:studyradsci@llu.edu) or visit [www.llu.edu/cept](http://www.llu.edu/cept)

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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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