



## 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 heart rhythm abnormalities. The cardiac electrophysiology technologist, who comprises a variety of allied health professionals (i.e., RT, RN, CVT, EMT, RRT, and PA), assists an EP cardiologist during diagnostic and invasive EP/rhythm management procedures. These procedures include 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 through affiliated cardiac cath labs/EP labs within the state of California and other approved states. The clinical sites are assigned by the program director and/or clinical coordinator. The A.S. in Cardiac Electrophysiology Technology program is 12 months long and comprised of online didactic coursework. Clinical hours can be accrued if the student is working in an established EP/rhythm management lab.

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 with rhythm management clinics and even in sales positions with various biotechnology companies.

The development of this program is in direct response to the needs expressed by hospitals, physicians, and biotech 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.

### Essential Job Functions

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.

## Program/Prerequisite Requirements

To be eligible for admission, the applicant must first complete a minimum of 39 quarter units (26 semester units) at an accredited college or university. A high school diploma or GED is also required for acceptance. The minimum subject/prerequisite requirements for this A.S. program are as follows:

### NATURAL SCIENCES:

Human Anatomy & Physiology with lab  
Medical Terminology

### SOCIAL SCIENCES:

Select one from either of the following:  
General Psychology, General Sociology, or Cultural Anthropology

### COMMUNICATION:

College English Composition (complete sequence)

Electives, if necessary, to meet the minimum total requirement of 39 quarter/26 semester units with a GPA of 2.5 or higher (3.0 GPA is preferred).

**Please note that C minus (C-) 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>

### Observation Experience Recommendation

Observation hours must be completed in an EP department (minimum of 2 exams observed).

### Accreditation

The Cardiac Electrophysiology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT), 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763; telephone: (727) 210-2350; website: [www.caahep.org](http://www.caahep.org).

## How to Apply

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

TOEFL or IELTS (or equivalent English language proficiency examination) scores are required for applicants whose native language is not English or whose secondary education was received outside the United States (refer to <https://alliedhealth.llu.edu/admissions/international-students>). 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.

**At this time this program is not eligible to accept International Students. For more information, please email [intlstdsrv@llu.edu](mailto:intlstdsrv@llu.edu).**

### Financial Aid

Apply early for financial assistance – even before receiving your acceptance into the program. You may begin the 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**

**Ryan Allen**

Office: (909) 558-4931

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

*Updated 23/01/2023*



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](http://www.llu.edu)  
[www.facebook.com/llualliedhealth](http://www.facebook.com/llualliedhealth)