



Bachelor of Science in Radiation Sciences (Online)

You may be closer than you think!

Loma Linda University's Bachelor of Science in Radiation Science program is unique by offering a flexible learning program at a competitive tuition rate so that students can choose part-time and full-time options, allowing them to work around their busy professional schedules. Average part-time students can complete their degree in 1-2 years depending on transfer credits from their entry-level imaging program. Frequently, students are closer than they think in completing their bachelor's degree.

Career Possibilities with your degree:

The Bachelor of Science in Radiation Sciences (BSRS) degree provides imaging professionals with the foundational education necessary to advance into various career possibilities, including:

- Advanced imaging modalities
- Graduate degrees, such as a master's program in management or education; clinical master's; and doctoral degrees, such as medical school; physician assistant; and radiologist assistant programs
- Professional advancement into entry management, education, and informatics positions
- Many more possibilities in imaging or public health

Students have the ability to custom tailor their degree by choosing an area of emphasis in which to focus their studies.

Areas of Emphasis include:

- Administration (1 year, 24 units - Online)
- Education (1 year, 24 units - Online)
- Imaging Informatics (1 year, 24 units - Online)
- Special Imaging: CT/MRI or CI/VI (6-12 months, 12-53 units)
- Science: (General, PA, and Medical School) 15-20 quarter units selected from the natural sciences in the areas of biology, microbiology, chemistry, math, statistics or physics.

Program Objective:

1. Graduate practitioners who are leaders in the profession and who are capable of serving the greater community in the public, private, and nonprofit sectors.
2. Graduate managers, administrators, and educators who contribute to the profession's body of knowledge through leadership roles, publications, professional presentations, and advocacy.

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.

Program Student Learning Outcomes

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

1. Develop meaningful interactions in healthcare
2. Demonstrate moral leadership
3. Discuss Healthcare Advancement and Sustainability
4. Apply emotional intelligence and leadership skills
5. Integrate concepts from chosen area of emphasis

The BSRS Degree is comprised of the following elements:

- Loma Linda University general studies requirements (General Education) for baccalaureate degrees: contact the program director for guidance.
- Professional Core (a student's entry-level imaging degree such as medical radiography or ultrasound): taken prior to program entry; 2 years full-time.
- The BSRS Program Core (required for all students to take): 1 year part-time.
- The BSRS Program Emphasis (customized focus of the degree): 1 year part-time.
- The BSRS Program Portfolio - Part of the core curriculum, students will be required to complete an ePortfolio comprised of academic and professional work, a signature project, and service learning (40 hours).

Admissions Requirements

Applicants may enter the B.S. degree program at any quarter. Applications are accepted year-round. Contact the program director for advisement. Admission is based on a selective process. In addition to Loma Linda University and School of Allied Health Professions' admissions requirements, the applicant must have the following requirements:

- An associate degree (or a minimum of 72-96 degree transferable units per program director approval).
- Be a graduate of an approved program in radiologic technology, computed tomography, magnetic resonance imaging, radiation therapy, nuclear medicine, cardiovascular imaging, or sonography (ultrasound).
- Certification from the American Registry of Radiologic Technologists (ARRT), American Registry for Diagnostic Medical Sonography (AB, BR, FE, OB/GYN, PS, AE, PT, and/or VT), or an equivalent specialty certification. Applicants who are eligible to take the ARRT or ARDMS examination for certification but who have not had opportunity to do so are given provisional status for one quarter. Eligibility to continue is subject to students obtaining certification. It should be understood that the University will not sign or validate registry documents of students who obtained their training in another program.
- Students should not expect admission into the program if their cumulative grade point average is below 2.5 (science and non-science subjects are computed separately).
- Students are advised to apply six months prior to the quarter of entry.
- Student are advised to contact the program director prior to applying to discuss requirements and establish an academic learning plan.

Curriculum (AY 2020-2021)

I. General Education, Prerequisite, and Transfer Work:

A maximum of 70 semester or 105 quarter units (didactic only) from a regionally 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: Timothy Seavey E-mail: studyradsci@llu.edu
Office: (909) 558-4931

For more information e-mail studyradsci@llu.edu or visit www.llu.edu/bsrs.

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II. Program Core (30 units):

AHJC 493 Senior Portfolio I	3 units
RTCH 387 Writing for Health-Care Professionals	3 units
AHJC 318 Emotional Intelligence & Leadership for HC Prof.	3 units
RTCH 489 Effective Communication for Supervisors	3 units
RTCH 467 Management of a Radiologic Service	3 units
RTCH 385 Radiologic Trends in Health-Care	2 units
AHRM 475 Health-Care Research and Statistics	4 units
RTCH 464 Moral Leadership	3 units
RTCH 485 Digital Management in Radiology	3 units
AHJC 494 Senior Portfolio II	3 units
Religion (4-16 units) ¹	
REL 423 Loma Linda Perspectives (Choose one course)	2-3 units
or REL 436 Adventist Heritage and Health	
or REL 437 Current Issues in Adventism	
or REL 406 Adventist Beliefs and Life	
REL 4 Religion Elective	6 units
Area of emphasis	12-53 units
Electives	0-34 units
Total units	50-96 units

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. Area of Emphasis:

You may choose one of the following for your area of emphasis (all emphases start in the Fall term):

Administration (24 Units)

RTII 358 PACS Planning & Implementation	3 units
RTCH xxx Practicum in Rad Sci	3 units
RTED 474 Instructional Techniques for the Rad Sci	3 units
HCBL 434 HC Financial Management	3 units
RTCH 418 Coding for Rad Mgrs	3 units
HCBL 346 Legal and Ethical Environment in HC	3 units
HCAD 374 HC Human Resources	3 units
HCAD 401 Operations Management	3 units

Education (24 Units)

RTED 477 Learning Activities & Assessment for the Rad Sci	3 units
RTCH xxx Practicum in Rad Sci	3 units
RTED 474 Instructional Techniques for the Rad Sci	3 units
RTED 476 Adult Learning Theory for the Rad Sci Student	3 units
RTED 475 Curriculum Development for the Rad Sci	3 units
HCBL 346 Legal and Ethical Environment in HC	3 units
RTED 485 Digital Design for the Rad Sci	3 units
HCAD 401 Operations Management	3 units

Imaging Informatics (PACS Administration) (24 units)

RTII 358 PACS Planning & Implementation	3 units
RTII 384 Advanced Imaging Informatics	1 unit
RTII xxx Certification Exam Review	2 units
RTED 474 Instructional Techniques for the Rad Sci	3 units
RTII 368 Intro to Imaging Informatics	3 units
RTII 378 Systems Management	3 units
RTCH 418 Coding for Rad Mgrs	3 units
RTII 356 Information Technology	3 units
HCAD 401 Operations Management	3 units

Special Imaging (12-53 units)

CT (12 units) and/or MRI (14 units): see CT/MRI certificate brochure.

CI (28 units) and/or VI (25 units): see CVI brochure.

*Clinical affiliation courses vary between certificate and bachelor's programs.

Science (15-20 units)

Select 15-20 quarter units from the natural sciences in the areas of biology, microbiology, chemistry, math, or physics. Courses must be taken from two different content areas with the approval of the program director. These courses are taken at a local college/university. A minimum grade of C+ (2.3) is required for all courses. Introductory sequences are not accepted.

Clinical practice (12-31 units)

The didactic (not including clinical units) coursework from a clinical-based imaging specialty (diagnostic sonography, cardiac sonography, nuclear medicine, special imaging, radiation therapy, cardiovascular imaging) can be applied to the BSRS online core classes to complete the BSRS program.



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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