



B.S. 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)
- Science: (General and Medical School) 15-20 quarter units selected from the natural sciences in the areas of biology, microbiology, chemistry, math, or physics.

Program Objectives:

1. Provide an ethically-based leadership program that enables graduates to serve communities in the imaging professions. .
2. Graduate administrators, educators, imaging informatics professionals, and clinical imaging professionals who advance the imaging professions through advocacy and professional practice.

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

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 a 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 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), and
- must have certification from the American Registry of Radiologic Technologists (ARRT), American Registry for Diagnostic Medical Sonography (ARDMS), or a 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 student's 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 (see program start dates below).
- Student are advised to contact the program director prior to applying to discuss requirements and establish an academic learning plan.

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.

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: Timothy Seavey E-mail: tseavey@llu.edu
Office: (909) 558-4931

<http://www.llu.edu/allied-health/sahp/radtech/bsrs.page?>

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		
REL 423	Loma Linda Perspectives (Choose one course)	2
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
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. 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)

RTCH 485	Digital Management in Radiology	3 units
HCAD 374	Health Care Human Resources	3 units
HCAD 465	Health Care Financial Management	3 units
HCAD 336	Legal Environment of Health Care	3 units
HCAD 401	Health Care Operations Management	3 units
RTCH 413	Management Practicum I	3 units
RTCH 414	Management Practicum II	3 units
RTCH 418	HIM and Coding for Radiology Mgrs.	3 units

Education (24 Units)

RTED 474	Instructional Techniques for Rad Sci	3 units
RTED 476	Adult Learning Theory for Rad Sci	3 units
RTED 475	Curriculum Dev for Rad Sci Students	3 units
RTED 484	Learning Env for Rad Sci Students	3 units
RTED 485	Digital Design for the Radiation Sci	3 units
RTED 487	Issues in Radiation Sciences	3 units
RTED 477	Learning Activities & Assessment for RS	3 units
RTED 415	Teaching Practicum in the Rad Sciences	3 units

Imaging Informatics (PACS Administration) (24 units)

RTII 354	Intro to Imaging Informatics	3 units
RTII 368	Communication and Education	3 units
RTII 378	Systems Management	3 units
RTII 364	Administrative Issues in Informatics	3 units
RTII 356	Information Technology	3 units
RTII 374	Image Management in Informatics	3 units
RTII 358	PACS Planning and Implementation	3 units
RTII 384	Advanced Imaging Informatics	3 units

Special Imaging CT/MRI* (26-52 units)

RTSI 367	Cross-Sectional Anatomy or RTSI 307***	2 units
RTSI 369	CT Physics or RTMR 305**	2 units
RTSI 364	CT Patient Care & Procedures or RTSI 306**	2 units
RTSI 361	MRI Physics I	2 units
RTSI 362	MRI Physics II	2 units
RTSI 365	MRI Patient Care and Procedures	2 units
RTSI 971	Special Imaging Clinical Affiliation (up to 27 units count towards the 192, 40 units will count towards the ARRT). Courses taken every quarter student is in special imaging courses.	20-40 units

*Students can select between CT, MRI, or Both.

**For the CT Sequence, Students must take one of the two sets of CT Courses: RTSI 367, RTSI 369, and RTSI 364 OR RTMR 305, RTMR 306 and RTSI 307 (LLU ASMR Students only)

updated 10/17/17



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

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