RADIATION THERAPY, B.S.

If you choose to major in radiation therapy at Saint Louis University, you will learn to treat cancer patients with high-energy radiation using highly specialized equipment. You will focus on helping plan and administer prescribed doses of radiation to affected areas as directed by a radiation oncologist.

About Radiation Therapists

A radiation therapist is a health care professional skilled in the art and science of medical radiation treatment. Therapists are primarily concerned with the design and administration of radiation therapy treatment, in addition to issues of daily well-being for patients with cancer. A therapist is responsible for administering the prescribed treatment dose of radiation using high-energy linear accelerators. These treatments are provided to cure the patient or to control the disease, thereby improving the patients’ quality of life. Therapists also monitor patients’ reactions for radiation side effects and keep highly accurate records of planning, treatment and equipment use.

This profession combines the great satisfaction of helping others during a difficult time in their lives with sophisticated technological equipment and scientific techniques. Radiation therapists work as part of a multidisciplinary health care team with radiation oncologists, medical physicists, dosimetrists, nurses and other medical specialists to provide the best treatment and support available to their patients.

Advantages to earning your B.S. in radiation therapy at SLU include:

- The website "Best Health Degrees" recently ranked SLU’s Radiation Therapy program as the #8 ranked radiation science program in the nation.
- Opportunities to participate in professional conferences with faculty and fellow students
- A curriculum with an interprofessional focus that emphasizes a team approach to health care
- Instruction by professionally credentialed faculty
- Undergraduate opportunities to conduct research and produce projects/papers acceptable for publication and presentation at professional conferences
- Pre-med and pre-physician assistant curriculum options
- A strong science-based curriculum, which prepares students interested in postgraduate professional programs or immediate job placement
- Small class sizes and low student-faculty ratios in the professional component of the radiation therapy program provide more individualized attention to the students.

Program Effectiveness Data

Curriculum Overview

SLU’s Bachelor of Science in Radiation Therapy prepares graduates for entry-level positions as radiation therapists. The program includes all basic sciences as well as a 12-month intensive XRT curriculum that includes 1,200 hours of clinical practicum.

SLU’s radiation therapy program offers several curriculum tracks including pre-physician assistant and pre-medicine. Upon successful completion of the program, graduates are eligible for national certification to become a Registered Radiation Therapist through the American Registry of Radiologic Technologists (ARRT).

Clinical and Research Opportunities

Radiation therapy students participate in a clinical practicum at multiple health care settings in the St. Louis area. This variety of clinical sites allows students to appreciate a variety of departmental structures, ranging from high-end research facilities to community hospitals.

Careers

There are many career opportunities for radiation therapists. Graduates can work as radiation therapists in hospitals and clinics and may also seek positions in areas such as health care administration, equipment sales, and training and teaching.

Some graduates further their education to pursue careers in dosimetry and medical physics. Radiation therapy provides excellent pre-professional curricula in pre-medicine and pre-physician assistant. Many students attend graduate school part-time with assistance from their place of employment.

Some jobs are classified as traveling jobs where the employee provides temporary help to departments that are short-staffed for a short period of time. These therapists travel regularly, with the length of stay and the location varying.

Major focus areas for radiation therapists are:

- Assessment and primary care of patients
- Delivery of treatments using linear accelerators or similar equipment using ionizing radiation

The general salary range depends on geographic location, years of experience and education. The median annual wage for radiation therapists is $86,850 according to the Bureau of Labor Statistics.

Admission Requirements

Freshmen Applicants

Solid academic performance in college preparatory course work is a primary concern in reviewing a freshman applicant’s file.

Admission criteria include:

- Minimum cumulative GPA of 2.70 on a 4.00 scale for all applicants, freshman and transfer students.
- Saint Louis University has moved to test-optional admission process for all undergraduate programs. Applicants may submit standardized test scores, but those who choose not to will not be disadvantaged in any way in the admission process.
- Professional coursework in the radiation therapy program is concentrated in the fourth year of the curriculum. Students may enter as freshmen or as transfer students, depending on program availability.

Transfer Applicants

The minimum college transfer GPA is 2.70/4.00.

Accreditation

The Radiation Therapy Program at Saint Louis University is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), having been awarded an eight-year accreditation.
It is the only JRCERT accredited Radiation Therapy program in the state of Missouri. The program’s next scheduled reaccreditation review by the JRCERT will be July 2025.

Joint Review Committee on Education in Radiological Technology (JRCERT) (https://www.jrcert.org/)
20 N. Wacker Drive, Suite 2850
Chicago, Illinois 60606-3182
312-704-5300
http://www.jrcert.org

For more information about the Saint Louis University radiation therapy program's goals, program outcomes, credentialing exam pass rates, job placement rates, technical standards, clinical site and program-specific requirements and fees, please see the additional program information and fees (https://www.slu.edu/doisy/degrees/program-pdfs/rt-accreditation-0918.pdf).

View Additional Program Information and Fees (PDF) (https://www.slu.edu/doisy/degrees/program-pdfs/rt-accreditation-0918.pdf)

Learning Outcomes
Doisy College of Health Sciences Learning Outcomes
1. The radiation therapy student will be able to articulate ethical behaviors in clinical practice.
2. The radiation therapy student will evidence appropriate written communication appropriate for the profession of radiation therapy.
3. The radiation therapy student will demonstrate proper radiation therapy treatment procedures.
4. The radiation therapy student will present a complex radiation therapy treatment procedure to an audience.
5. The radiation therapy student will demonstrate professional behaviors in the clinical setting.

Radiation Therapy Programmatic Mission
The Radiation Therapy program at Saint Louis University, Doisy College of Health Sciences, is dedicated to preparing liberally educated, competent, caring and socially responsible radiation therapists, committed to clinical and scholarly excellence.

Radiation Therapy Program Learning Outcomes and Goals
Goal A: Students will be clinically competent
1. The radiation therapy student will position patients as directed in treatment record.
2. The radiation therapy student will set treatment machine as indicated in patient treatment record.
3. The radiation therapy student will practice patient confidentiality.
4. The radiation therapy student will practice proper radiation protection and safety.

Goal B: Students will demonstrate problem-solving and critical thinking skills.
1. The radiation therapy student will demonstrate complex radiation therapy procedures.
2. The radiation therapy student will present a complex radiation therapy treatment procedure to an audience.
3. The radiation therapy student will demonstrate appropriate problem-solving skills for the practice of radiation therapy when provided with a case for analysis.

Goal C: Students will demonstrate effective communication skills.
1. The radiation therapy student will appropriately communicate with patients.
2. The radiation therapy student will show evidence of appropriate written communication for the profession of radiation therapy.
3. The radiation therapy student will demonstrate proper presentation skills.

Goal D: Students will demonstrate professional growth and development.
1. The radiation therapy student will demonstrate professional behavior.
2. The radiation therapy student will be able to articulate ethical behaviors in clinical practice.
3. The radiation therapy student will have knowledge of professional organizations.
4. The radiation therapy student will demonstrate the concepts of compassionate care.

The program annually tracks student learning outcomes as they relate to the above student goals.

Requirements
Standard Track

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**Pre-Medicine Track**

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**Total Credits: 131-132**

**Radiation Therapy**

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**Total Credits: 131-132**

**Pre-Physician Assistant and PA Scholar Track**

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**Second Degree Option for students with a Bachelor's Degree**

Total semester credits vary based on applicable courses completed in an undergraduate program. The specific course plan is individually designed for each applicant.

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<td>XRT 4960</td>
<td>Capstone in Radiation Therapy</td>
<td>1</td>
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</tbody>
</table>

**Total Credits** 145-146

**Continuation Standards**

Students must maintain a cumulative grade point average (GPA) of 2.70 to remain in good standing.

**Roadmap**

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.
Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

### Standard Track

#### Course Title Credits

| Year One | Fall | CHEM 1080 Principles of Chemistry 1 Lecture and Principles of Chemistry 1 Lab | 4 |
| CORE 1000 Ignite First Year Seminar | 2 |
| CORE 1500 Cura Personalis 1: Self in Community | 1 |
| ENGL 1900 Advanced Strategies of Rhetoric and Research (satisfies CORE 1900) | 3 |
| HCE 1600 Embodiment, Life, and Death in Context (satisfies CORE 1600) | 3 |
| MATH 1200 College Algebra | 3 |
| **Total Credits** | 16 |

| Year Two | Fall | BIOL 1240 General Biology: Information Flow and Evolution and Principles of Biology I Laboratory (satisfies CORE 3800) | 4 |
| CORE 1200 Eloquencia Perfecta 2: Oral and Visual Communication | 3 |
| CORE 2800 Eloquencia Perfecta 3: Creative Expression | 2-3 |
| IPE 4200 Interprofessional Collaboration and Healthcare in Global Context | 3 |
| ENGLXXXX English Literature Elective: satisfies CORE 3400 | 3 |
| **Total Credits** | 16 |

| Spring | CHEM 1480 Principles of Chemistry 2 Lecture and Principles of Chemistry 2 Lab | 4 |
| IPE 2100 Interprofessional Collaboration and Healthcare in Global Context | 3 |
| MATH 1400 Pre-Calculus | 3 |
| PSY 1010 General Psychology (satisfies CORE 3600) | 3 |
| STAT 1300 Elementary Statistics with Computers (satisfies CORE 3200) | 3 |
| **Total Credits** | 16 |

| Year Three | Fall | HIM 4750 Fundamentals of Clinical Medicine | 3 |
| HSCI 3200 Aspects of Health Law | 3 |
| HSCI 3300 Anatomy & Physiology I | 4 |
| & HSCI 3310 and Anatomy & Physiology I Lab | 4 |
| PHYS 1220 General Physics I & PHYS 1235 and General Physics I Lab | 4 |
| **Total Credits** | 14 |

| Spring | HSCI 3400 Anatomy and Physiology Lecture II & HSCI 3410 and Anatomy & Physiology II Lab | 4 |
| HSCI 4700 Quality Management and Performance Improvement | 3 |
| IPE 4900 Interprofessional Community Practicum (satisfies CORE 4000) | 2 |
| PHYS 1240 General Physics II & PHYS 1255 and General Physics II Lab | 4 |
| **Total Credits** | 13 |

| Year Four | Fall | XRT 4310 Radiation Physics | 2 |
| XRT 4320 Radiation Therapy Practice I | 3 |
| XRT 4330 Treatment Techniques | 3 |
| XRT 4340 Treatment Planning | 3 |
| XRT 4360 Emerging Technologies | 2 |
| XRT 4500 Radiation Oncology Patient Care and Quality Management | 3 |
| XRT 4510 Radiobiology and Radiation Protection | 2 |
| **Total Credits** | 18 |

| Spring | XRT 4350 Clinical Practicum I (! satisfies CORE 3500) | 10 |
| XRT 4420 Radiation Therapy Practice II | 3 |
| XRT 4440 Clinical Dosimetry | 3 |
| XRT 4960 Capstone in Radiation Therapy | 1 |
| **Total Credits** | 17 |

| Summer | XRT 4450 Clinical Practicum II | 8 |
| **Total Credits** | 8 |

### Pre-Medicine Track

#### Course Title Credits

| Year One | Fall | BIOL 1240 General Biology: Information Flow and Evolution and Principles of Biology I Laboratory (satisfies CORE 3800) | 4 |
| CORE 1700 Ultimate Questions: Philosophy | 3 |
| CORE 2500 Cura Personalis 2: Self in Contemplation | 0 |
| DIET 2080 Foundations in Nutrition | 2 |
| HSCI 2100 Health Care Management | 3 |
| HSCI 2200 Medical Terminology | 3 |
| SOC 1100 Introduction to Sociology | 3 |
| **Total Credits** | 14 |

<p>| Spring | CHEM 1110 General Chemistry I &amp; CHEM 1115 and General Chemistry 1 Laboratory | 4 |
| CORE 1000 Ignite First Year Seminar | 2 |
| CORE 1500 Cura Personalis 1: Self in Community | 1 |</p>
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<td>General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory</td>
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**Program Notes**
Curriculum is designed to address SLU School of Medicine requirements and is subject to change. If applying to a medical school at another institution, please consult their website for specific requirements.

**Pre-Physician Assistant and PA Scholars Track**

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Radiation Therapy, B.S. 2022-2023

Year One

Fall
CHEM 1120 General Chemistry 2 and General Chemistry 2 Laboratory 4
HCE 1600 Embodiment, Life, and Death in Context (satisfies CORE 1600) 3
PSY 1010 General Psychology (satisfies CORE 3600) 3
Credits 17

Summer
XXXX Literature Elective 3
Credits 3

Year Two

Fall
BIOL 3020 Biochemistry and Molecular Biology 3
CHEM 2410 Organic Chemistry 1 and Organic Chemistry 1 Laboratory 4
CORE 1700 Ultimate Questions: Philosophy 3
CORE 2500 Cura Personalis 2: Self in Contemplation 0
IPE 2100 Interprofessional Collaboration and Healthcare in Global Context 3
STAT 1300 Elementary Statistics with Computers (satisfies CORE 3200) 3
Credits 16

Spring
BIOL 3030 Principles of Genetics 3
CHEM 2420 Organic Chemistry 2 and Organic Chemistry 2 Laboratory 4
CORE 1200 Eloquentia Perfecta 2: Oral and Visual Communication 3
CORE 2800 Eloquentia Perfecta 3: Creative Expression 2-3
ENGLxxxx English Literature Elective: satisfies CORE 3400
Credits 12-13

Summer
PHYS 1310 College Physics I and College Physics I Laboratory 4
PHYS 1330 College Physics II and College Physics II Laboratory 4
Credits 8

Year Three

Fall
BLS 4510 Medical Microbiology 4
HIM 4750 Fundamentals of Clinical Medicine 3
HSCI 3200 Aspects of Health Law 3
HSCI 3300 Anatomy & Physiology I and Anatomy & Physiology I Lab 4
MLS 4515 Medical Microbiology Laboratory (Optional) 1
Credits 15

Spring
DIET 2080 Foundations in Nutrition 2
HSCI 3400 Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab 4
IPE 4200 Applied Decision-Making in Interprofessional Practice (satisfies CORE 1200) 3
Credits 9

Year Four

Fall
XRT 4310 Radiation Physics 2
XRT 4320 Radiation Therapy Practice I 3
XRT 4330 Treatment Techniques 3
XRT 4340 Treatment Planning 3
XRT 4360 Emerging Technologies 2
XRT 4500 Radiation Oncology Patient Care and Quality Management 3
XRT 4510 Radiobiology and Radiation Protection 2
Credits 18

Spring
XRT 4350 Clinical Practicum I (satisfies CORE 3500) 10
XRT 4420 Radiation Therapy Practice II 3
XRT 4440 Clinical Dosimetry 3
XRT 4960 Capstone in Radiation Therapy 1
Credits 17

Summer
XRT 4450 Clinical Practicum II 8
Credits 8

Total Credits 145-146

Program Notes
Curriculum is designed to address SLU’s PA program requirements and is subject to change. If applying to a PA program at another institution, please consult their website for specific requirements.

Second Baccalaureate Degree Track

Code Title Credits
General Electives and/or Transfer Credits 51
Prerequisite Courses
Pre-Calculus 3
Principles Chemistry I with Lab 4
Principles Chemistry II with Lab 4
General Physics I with Lab 4
General Physics II with Lab 4
Anatomy and Physiology I with Lab 4
Anatomy and Physiology II with Lab 4
Medical Ethics 3
Oral and Written Communication 3
Basic Human Nutrition 2
Theology 3
Radiation Therapy
XRT 4310 Radiation Physics 2
XRT 4320 Radiation Therapy Practice I 3
XRT 4330 Treatment Techniques 3
XRT 4340 Treatment Planning 3
XRT 4350 Clinical Practicum I 10
XRT 4360 Emerging Technologies 2
XRT 4420  Radiation Therapy Practice II  3
XRT 4440  Clinical Dosimetry  3
XRT 4450  Clinical Practicum II  8
XRT 4500  Rad Onc Pat. Care & Qual Manag  3
XRT 4510  Radiobiology/Rad Protection  2
XRT 4960  Capstone in Radiation Therapy  1
Total Credits  127

Program Notes
Second degree option for students with a bachelor's degree:

This 12-month program is identical to the senior year of the degree option. Successful completion leads to a second baccalaureate degree in radiation therapy. This option is designed as an alternative for the student who already possesses a bachelor's degree and is motivated to become a practicing radiation therapist in 12 months.

To be considered for the second baccalaureate degree, the applicant must have satisfactorily completed a baccalaureate degree, with a minimum GPA of 2.7 (on a 4.0 scale), including the prerequisite courses listed above.

The application must include evidence of shadowing, observation or documented work experience in the field of radiation therapy. The applicant must complete the application for the professional year and submit official transcripts of prior college work through the SLU admission website at http://www.slu.edu.

The applicant must show satisfactory evidence of good character and physical ability to perform functions of the radiation therapist's role. All applicants must meet the professional performance and technical standards required by the profession. Students must also successfully complete a drug screen and criminal background check prior to the start of the professional year.

Application to the 12-month option is via a competitive application process with admission granted on a space-available basis. The selection process includes a personal interview for qualified applicants.

Contact Us
Apply for Admission (https://www.slu.edu/admission/)

Contact Doisy College of Health Sciences:
Julie Miller
Recruitment Specialist
314-977-2570
dchs@health.slu.edu