

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 patient's 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:

- 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, providing 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.

Students also are encouraged to join and participate in the functions of the Saint Louis University Medical Imaging and Radiation Therapeutics Club, in addition to professional organizations in the St. Louis area.

Careers

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

Some graduates further their education to pursue careers in dosimetry, medical physics and advanced practice. 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 a freshman or as a transfer student, 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 Additional Program Information and Fees (<https://www.slu.edu/doisy/degrees/program-pdfs/rt-accreditation-0918.pdf>).

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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 complex 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

Code	Title	Credits
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
CHEM 1080 & CHEM 1085	Principles of Chemistry 1 Lecture and Principles of Chemistry 1 Lab	4
CHEM 1480 & CHEM 1485	Principles of Chemistry 2 Lecture and Principles of Chemistry 2 Lab	4
DIET 2080	Foundations in Nutrition	2
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
ENGL 2xxx	Literature	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2200	Medical Terminology	3
HSCI 3200	Aspects of Health Law	3
HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
HSCI 4700	Quality Management and Performance Improvement	3
IPE 1100	Introduction to Interprofessional Health Care	1
IPE 3500	Health Care Systems and Health Promotion	3
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
MATH 1200	College Algebra	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3
ORES 2320	Interprofessional Health Outcomes	2

PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHYS 1220 & PHYS 1235	General Physics I and General Physics I Lab (with Lab)	4
PHYS 1240 & PHYS 1255	General Physics II and General Physics II Lab (with Lab)	4
PSY 1010	General Psychology	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3
Fine Art (Cultural Studies, Art, Dance, Music, Theater)		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	Radiation Oncology Patient Care and Quality Management	3
XRT 4510	Radiobiology and Radiation Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		127

Pre-Medicine Track

Code	Title	Credits
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory	4
BIOL 3020	Biochemistry and Molecular Biology	3
BIOL 3040	Cell Structure & Function	3
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
DIET 2080	Foundations in Nutrition	2
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
ENGL 2xxx	Literature	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2200	Medical Terminology	3
HSCI 3200	Aspects of Health Law	3
HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
IPE 1100	Introduction to Interprofessional Health Care	1

IPE 3500	Health Care Systems and Health Promotion	3
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3
MATH 1510	Calculus I	4
ORES 2320	Interprofessional Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHYS 1310 & PHYS 1320	College Physics I and College Physics I Laboratory	4
PHYS 1330 & PHYS 1340	College Physics II and College Physics II Laboratory	4
PSY 1010	General Psychology	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3
Fine Art (Cultural Studies, Art, Dance, Music, Theater)		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	Radiation Oncology Patient Care and Quality Management	3
XRT 4510	Radiobiology and Radiation Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		143

Pre-Physician Assistant and PA Scholar Track

Code	Title	Credits
Foundation		
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory	4
BIOL 3020	Biochemistry and Molecular Biology	3
BIOL 3030	Principles of Genetics	3
BLS 4510	Medical Microbiology	4
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
DIET 2080	Foundations in Nutrition	2
ENGL 1900	Advanced Strategies of Rhetoric and Research	3

ENGL 2xxx	Literature	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2200	Medical Terminology	3
HSCI 3200	Aspects of Health Law	3
HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
IPE 1100	Introduction to Interprofessional Health Care	1
IPE 3500	Health Care Systems and Health Promotion	3
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3
ORES 2320	Interprofessional Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHYS 1220 & PHYS 1235	General Physics I and General Physics I Lab (with Lab)	4
PHYS 1240 & PHYS 1255	General Physics II and General Physics II Lab (with Lab)	4
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Fine Art (Cultural Studies, Art, Dance, Music, Theater)		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	Radiation Oncology Patient Care and Quality Management	3
XRT 4510	Radiobiology and Radiation Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		140

2+2 Option for Students with Associate Degree in Radiography

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

Code	Title	Credits
Core and Electives		
		Up to 20
General Education Courses allowed to be transferred		
	Anatomy and Physiology I with Lab	4
	Anatomy and Physiology II with Lab	4
	Biology I with Lab	4

College Algebra		3
Composition and Rhetoric I		3
Composition and Rhetoric II		3
General Psychology		3
Medical Terminology		3
Professional Communication		3
Sociology		3
Courses to be successfully completed at Saint Louis University		
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
CHEM 1080 & CHEM 1085	Principles of Chemistry 1 Lecture and Principles of Chemistry 1 Lab	4
CHEM 1480 & CHEM 1485	Principles of Chemistry 2 Lecture and Principles of Chemistry 2 Lab	4
DIET 2080	Foundations in Nutrition	2
IPE 3500	Health Care Systems and Health Promotion	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3
ORES 2320	Interprofessional Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
THEO 1000	Theological Foundations	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	Radiation Oncology Patient Care and Quality Management	3
XRT 4510	Radiobiology and Radiation Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		106-126

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.

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 Radiation Oncology Patient Care and Quality Management	3
XRT 4510 Radiobiology and Radiation Protection	2
XRT 4960 Capstone in Radiation Therapy	1
Total Credits	132

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 & CHEM 1085	Principles of Chemistry 1 Lecture and Principles of Chemistry 1 Lab	4
IPE 1100	Introduction to Interprofessional Health Care	1
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
MATH 1200	College Algebra	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		14
Spring		
CHEM 1480 & CHEM 1485	Principles of Chemistry 2 Lecture and Principles of Chemistry 2 Lab	4
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3

PSY 1010	General Psychology	3
XXXX	Literature Elective	3
Credits		16

Year Two

Fall

BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
HSCI 2200	Medical Terminology	3
IPE 3500	Health Care Systems and Health Promotion	3
ORES 2320	Interprofessional Health Outcomes	2
ART XXXX	Fine Arts	3

Credits 15

Spring

DIET 2080	Foundations in Nutrition	2
HSCI 2100	Health Care Management	3
PHIL 2050	Ethics	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3

Credits 14

Year Three

Fall

HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3200	Aspects of Health Law	3
HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
PHYS 1220 & PHYS 1235	General Physics I and General Physics I Lab	4

Credits 14

Spring

HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
HSCI 4700	Quality Management and Performance Improvement	3
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
PHYS 1240 & PHYS 1255	General Physics II and General Physics II Lab	4

Credits 14

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	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		130

Pre-Medicine Track

Course	Title	Credits
Year One		
Fall		
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4
IPE 1100	Introduction to Interprofessional Health Care	1
MATH 1400	Pre-Calculus	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
PSY 1010	General Psychology	3
Credits		18
Spring		
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
MATH 1510	Calculus I	4
IPE 3500	Health Care Systems and Health Promotion	3
Credits		15
Year Two		
Fall		
BIOL 3020	Biochemistry and Molecular Biology	3
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
DIET 2080	Foundations in Nutrition	2
HSCI 3200	Aspects of Health Law	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
SOC 1100	Introduction to Sociology	3
Credits		18
Spring		
BIOL 3040	Cell Structure & Function	3
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2200	Medical Terminology	3
MATH 1300	Elementary Statistics with Computers	3
PHIL 2050	Ethics	3
Credits		16
Year Three		
Fall		
HIM 4750	Fundamentals of Clinical Medicine	3

HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
ORES 2320	Interprofessional Health Outcomes	2
PHYS 1310 & PHYS 1320	College Physics I and College Physics I Laboratory	4
ART XXXX	Fine Art Elective	3
Credits		16

Spring

HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
PHYS 1330 & PHYS 1340	College Physics II and College Physics II Laboratory	4
THEO 1000	Theological Foundations	3
ENGL 2XXX/3XXX	Literature Elective	3
Credits		17

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	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		143

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 Track

Course	Title	Credits
Year One		
Fall		
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4

ENGL 1900	Advanced Strategies of Rhetoric and Research	3
IPE 1100	Introduction to Interprofessional Health Care	1
MATH 1400	Pre-Calculus	3
Credits		15
Spring		
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
IPE 3500	Health Care Systems and Health Promotion	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		14
Summer		
XXXX	Literature Elective	3
Credits		3
Year Two		
Fall		
BIOL 3020	Biochemistry and Molecular Biology	3
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
HSCI 3200	Aspects of Health Law	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Credits		16
Spring		
BIOL 3030	Principles of Genetics	3
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2200	Medical Terminology	3
MATH 1300	Elementary Statistics with Computers	3
PHIL 2050	Ethics	0-3
Credits		13-16
Year Three		
Fall		
BLS 4510	Medical Microbiology	4
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
ORES 2320	Interprofessional Health Outcomes	2
PHYS 1220 & PHYS 1235	General Physics I and General Physics I Lab	4
Credits		17
Spring		
DIET 2080	Foundations in Nutrition	2
HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
PHYS 1240 & PHYS 1255	General Physics II and General Physics II Lab	4

XXXX	Fine Arts Elective	3
Credits		16
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	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		137-140

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.

Physician Assistants Scholars Track

Course	Title	Credits
Year One		
Fall		
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4
IPE 1100	Introduction to Interprofessional Health Care	1
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
MATH 1400	Pre-Calculus	3
Credits		15
Spring		
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
IPE 3500	Health Care Systems and Health Promotion	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		14

Summer		
XXXX	Literature Elective	3
Credits		3

Year Two

Fall		
BIOL 3020	Biochemistry and Molecular Biology	3
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
HSCI 3200	Aspects of Health Law	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Credits		16

Spring

BIOL 3030	Principles of Genetics	3
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2200	Medical Terminology	3
MATH 1300	Elementary Statistics with Computers	3
PHIL 2050	Ethics	3
Credits		16

Year Three

Fall		
BLS 4510	Medical Microbiology	4
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3300 & HSCI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
ORES 2320	Interprofessional Health Outcomes	2
PHYS 1220 & PHYS 1235	General Physics I and General Physics I Lab	4
Credits		17

Spring

DIET 2080	Foundations in Nutrition	2
HSCI 3400 & HSCI 3410	Anatomy and Physiology Lecture II and Anatomy & Physiology II Lab	4
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
PHYS 1240 & PHYS 1255	General Physics II and General Physics II Lab	4
XXXX	Fine Arts Elective	3
Credits		16

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	10
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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		140

Program Notes

Upon completion of the bachelor's degree, students will proceed directly into SLU's graduate-level PA program.

2+2 Option for Students with Associate's Degree in Radiography

Code	Title	Credits
Core and Electives		
		Up to 20

General Education Courses allowed to be transferred

Anatomy and Physiology I with Lab	4
Anatomy and Physiology II with Lab	4
Biology I with Lab	4
College Algebra	3
Composition and Rhetoric I	3
Composition and Rhetoric II	3
General Psychology	3
Medical Terminology	3
Professional Communication	3
Sociology	3

Courses to be successfully completed at Saint Louis University

IPE 4200	Applied Decision-Making in Interprofessional Practice	3
CHEM 1080 & CHEM 1085	Principles of Chemistry 1 Lecture and Principles of Chemistry 1 Lab	4
CHEM 1480 & CHEM 1485	Principles of Chemistry 2 Lecture and Principles of Chemistry 2 Lab	4
DIET 2080	Foundations in Nutrition	2
IPE 3500	Health Care Systems and Health Promotion	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3
ORES 2320	Interprofessional Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
THEO 1000	Theological Foundations	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 (taken over multiple semesters)	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	Radiation Oncology Patient Care and Quality Management	3
XRT 4510	Radiobiology and Radiation Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		106-126

Program Notes

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

Selection for student admission is on a space-available basis, and final acceptance decision is made by the radiation therapy selection committee.

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

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 application deadline is August 1.

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/>)

For additional admission questions please contact:
 Julie Miller
 Recruitment Specialist
 314-977-2570
dchs@health.slu.edu

2+SLU

2+SLU programs are formal transfer agreements for students seeking an associate degree at a partner institution.

- Radiation Therapy, B.S. (STLCC 2+SLU)