

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.

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 patient's 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 life 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.

The Bachelor of Science in radiation therapy prepares a graduate for an entry-level position as a radiation therapist. The program includes all basic sciences as well as a 12-month intensive XRT curriculum that includes 1200 hours of clinical practicum. The radiation therapy program offers several curriculum tracks including pre-physician assistant and pre-Medicine. Upon successful completion of the program, the graduate is eligible for national certification to become a Registered Radiation Therapist (ARRT).

Radiation therapy students 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.

Curriculum Overview

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

- 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
- The radiation therapy program has a strong science-based curriculum, which prepares students interested in postgraduate professional programs or immediate job placement.
- The professional component of the radiation therapy program has small class sizes and low student-faculty ratios, providing more individualized attention to the students.

Fieldwork 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 opportunities for radiation therapists in various locations. Graduates can work as radiation therapists in hospitals and clinics and may seek positions in areas such as information technology, health care administration, equipment sales and training, and teaching.

Some graduates further their education to pursue careers in dosimetry, medical physics, and molecular imaging and therapeutics. 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

The general salary range depends on geographic location, years of experience and education. The median annual wage for radiation therapists is \$72,910 according to the Bureau of Labor Statistics.

Admission Requirements

Factors considered for admission include academic performance, class rank, college admission test scores, and high school profile.

Admission criteria include:

- ACT composite score of at least 22, with no subsection lower than 20, or equivalent SAT scores
- Minimum GPA of 2.70 on a 4.00 scale

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, depending on availability.

Scholarships and Financial Aid

There are two principal ways to help finance a Saint Louis University education:

- **Scholarships:** awarded based on academic achievement, service, leadership and financial need. In addition to University scholarships, the Doisy College of Health Sciences offers a scholarship to sophomores, juniors and seniors.
- **Financial Aid:** provided in the form of grants and loans, some of which require repayment.

For priority consideration for merit-based scholarships, applicants should apply for admission by Dec. 1 and complete a Free Application for Federal Student Aid (FAFSA) by March 1.

For more information, visit the student financial services office online at <http://finaid.slu.edu>.

Accreditation

Joint Review Committee on Education in Radiological Technology (JRCERT)

20 N. Wacker Drive, Suite 2850
Chicago, Illinois 60606-3182
(312) 704-5300
<http://www.jrcert.org>

Additional Accreditation Information (<https://www.slu.edu/doisy/degrees/program-pdfs/rt-accreditation-0918.pdf>)

Learning Outcomes

1. Graduates will be able to demonstrate ethical behaviors in clinical practice.
2. Graduates will be able to evidence written communication appropriate for the profession.
3. Graduates will be able to demonstrate complex radiation therapy treatment procedures.
4. Graduates will be able to present a complex radiation therapy treatment procedure to an audience.
5. Graduates will be able to demonstrate professional behaviors.

Requirements

Standard Track

Code	Title	Credits
BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
CHEM 1083	Principles of Chemistry 1 with Lab	4
CHEM 1483	Principles of Chemistry 2	4
DIET 2080	Foundations in Nutrition	2
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature	3
HIST 1110	Origins of the Modern World to 1500	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3200	Health Law and Policy	3
HSCI 4700	Quality Management	3
HSI 2200	Medical Terminology	3
HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
HSI 3400 & HSI 3410	Anatomy & Physiology 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 1200	College Algebra	3
MATH 1300	Elementary Statistics with Computers	3

MATH 1400	Pre-Calculus	3
ORES 2320	Interprofess Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHYS 1220	General Physics I	4
PHYS 1240	General Physics II	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
Humanities Elective (Psychology, Sociology, Theology, Foreign Language, Economics, Ethics, etc.)		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	6
XRT 4360	Emerging Technologies	2
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4450	Clinical Practicum II	0
XRT 4500	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
XRT 4960	Capstone in Radiation Therapy	1

Total Credits 125

Pre-Medicine Track

Code	Title	Credits
BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
BIOL 1260 & BIOL 1265	Principles of Biology II 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
HIST 1110	Origins of the Modern World to 1500	3
HSCI 3200	Health Law and Policy	3
HSI 2200	Medical Terminology	3
HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
HSI 3400 & HSI 3410	Anatomy & Physiology 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	Interprofess Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory	4
PHYS 1330 & PHYS 1340	Physics II and 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	6
XRT 4360	Emerging Technologies	2
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4450	Clinical Practicum II	0
XRT 4500	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		134

Pre-Physician Assistant and PA Scholar Track

Code	Title	Credits
Foundation		
BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
BIOL 3030	Principles of Genetics	3
BIOL 3040	Cell Structure & Function	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
HIST 1110	Origins of the Modern World to 1500	3
HSCI 3200	Health Law and Policy	3
HSI 2200	Medical Terminology	3
HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
HSI 3400 & HSI 3410	Anatomy & Physiology 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	Interprofess Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory	4
PHYS 1330 & PHYS 1340	Physics II and Physics II Laboratory	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	6
XRT 4360	Emerging Technologies	2
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4450	Clinical Practicum II	0
XRT 4500	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
XRT 4960	Capstone in Radiation Therapy	1
Total Credits		131

2+2 Option for Students with Associate Degree in Radiography

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

Code	Title	Credits
AAS Radiography Program Professional Portion		
Select 28 credits		28
Transfer Credits		
American History or Origins of the Modern World		3
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
Foundation	
IPE 4200 Applied Decision-Making in Interprofessional Practice	3
CHEM 1083 Principles of Chemistry 1 with Lab	4
CHEM 1483 Principles of Chemistry 2	4
DIET 2080 Foundations in Nutrition	2
HIM 4750 Fundamentals of Clinical Medicine	3
IPE 3500 Health Care Systems and Health Promotion	3
MATH 1300 Elementary Statistics with Computers	3
MATH 1400 Pre-Calculus	3
ORES 2320 Interprofess 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	6
XRT 4360 Emerging Technologies	2
XRT 4420 Radiation Therapy Practice II	3
XRT 4440 Clinical Dosimetry	3
XRT 4450 Clinical Practicum II	0
XRT 4500 Rad Onc Pat. Care & Qual Manag	3
XRT 4510 Radiobiology/Rad Protection	2
XRT 4960 Capstone in Radiation Therapy	1
Total Credits	128

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	6
XRT 4360 Emerging Technologies	2
XRT 4420 Radiation Therapy Practice II	3
XRT 4440 Clinical Dosimetry	3
XRT 4450 Clinical Practicum II	0
XRT 4500 Rad Onc Pat. Care & Qual Manag	3
XRT 4510 Radiobiology/Rad Protection	2
XRT 4960 Capstone in Radiation Therapy	1
Total Credits	120

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 1083	Principles of Chemistry 1 with Lab	4	
IPE 1100	Introduction to Interprofessional Health Care	1	
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3	
HIST 1110	Origins of the Modern World to 1500	3	
MATH 1200	College Algebra	3	
PHIL 1050	Introduction to Philosophy: Self and Reality	3	
		Credits	17
Spring			
CHEM 1483	Principles of Chemistry 2	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	Principles of Biology I and Principles of Biology I Laboratory	4
IPE 3500	Health Care Systems and Health Promotion	3
HSI 2200	Medical Terminology	3
THEO 1000	Theological Foundations	3
Credits		13

Spring

! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
DIET 2080	Foundations in Nutrition	2
PHIL 2050	Ethics	3
SOC 1100	Introduction to Sociology	3
XXXX	Fine Arts Elective	3
Credits		15

Year Three**Fall**

HSCI 3200	Health Law and Policy	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
ORES 2320	Interprofess Health Outcomes	2
PHYS 1220	General Physics I	4
XXXX	Humanities Elective	3
Credits		16

Spring

HIM 4150 or HSCI 4700	Quality Improvement or Quality Management	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
ORES 2310	Introduction to Clinical Medicine	3
PHYS 1240	General Physics II	4
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	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
Credits		18

Spring

XRT 4350	Clinical Practicum I	6
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4960	Capstone in Radiation Therapy	1
Credits		13

Summer

XRT 4450	Clinical Practicum II	0
Credits		0
Total Credits		125

Pre-Medicine Track

Course	Title	Credits
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Year One**Fall**

! BIOL 1240 & BIOL 1245	Principles of Biology I 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	Principles of Biology II 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
HIST 1110	Origins of the Modern World to 1500	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		18

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
IPE 3500	Health Care Systems and Health Promotion	3
PHIL 2050	Ethics	3
XXXX	Literature Elective	3
Credits		18

Spring

BIOL 3040	Cell Structure & Function	3
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
MATH 1300	Elementary Statistics with Computers	3
SOC 1100	Introduction to Sociology	3
Credits		16

Year Three**Fall**

HSCI 3200	Health Law and Policy	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4

ORES 2320	Interprofess Health Outcomes	2
! PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory	4
XXXX	Fine Arts Elective	3
	Credits	16
Spring		
HSI 2200	Medical Terminology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
ORES 2310	Introduction to Clinical Medicine	3
! PHYS 1330 & PHYS 1340	Physics II and Physics II Laboratory	4
THEO 1000	Theological Foundations	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	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
	Credits	18
Spring		
XRT 4350	Clinical Practicum I	6
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4960	Capstone in Radiation Therapy	1
	Credits	13
Summer		
XRT 4450	Clinical Practicum II	0
	Credits	0
	Total Credits	134

Program Notes

Curriculum is designed to address SLU's Medical School 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	Principles of Biology I 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 1200	College Algebra	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3

PSY 1010	General Psychology	3
	Credits	18
Spring		
! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
! CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
MATH 1400	Pre-Calculus	3
HIST 1110	Origins of the Modern World to 1500	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
	Credits	17
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	Health Law and Policy	3
IPE 3500	Health Care Systems and Health Promotion	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
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
MATH 1300	Elementary Statistics with Computers	3
PHIL 2050	Ethics	3
	Credits	16

Year Three

Fall		
BLS 4510	Medical Microbiology	4
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
ORES 2320	Interprofess Health Outcomes	2
PHYS 1220	General Physics I	4
XXXX	Fine Arts Elective	3
	Credits	17

Spring

DIET 2080	Foundations in Nutrition	2
HSI 2200	Medical Terminology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
ORES 2310	Introduction to Clinical Medicine	3
PHYS 1240	General Physics II	4
	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	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
Credits		18

Spring

XRT 4350	Clinical Practicum I	6
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4960	Capstone in Radiation Therapy	1
Credits		13

Summer

XRT 4450	Clinical Practicum II	0
Credits		0
Total Credits		134

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	Principles of Biology I 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 1200	College Algebra	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PSY 1010	General Psychology	3
Credits		18

Spring

! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
! CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
MATH 1400	Pre-Calculus	3
HIST 1110	Origins of the Modern World to 1500	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		17

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	Health Law and Policy	3
IPE 3500	Health Care Systems and Health Promotion	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
IPE 4200	Applied Decision-Making in Interprofessional Practice	3
MATH 1300	Elementary Statistics with Computers	3
PHIL 2050	Ethics	3
Credits		16

Year Three

Fall

BLS 4510	Medical Microbiology	4
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
ORES 2320	Interprofess Health Outcomes	2
PHYS 1220	General Physics I	4
XXXX	Fine Arts Elective	3
Credits		17

Spring

DIET 2080	Foundations in Nutrition	2
HSI 2200	Medical Terminology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
ORES 2310	Introduction to Clinical Medicine	3
PHYS 1240	General Physics II	4
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	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
Credits		18

Spring

XRT 4350	Clinical Practicum I	6
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4960	Capstone in Radiation Therapy	1
Credits		13

Summer

XRT 4450	Clinical Practicum II	0
Credits		0
Total Credits		134

Program Notes

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

2+2 Track

Code	Title	Credits
AAS Radiography Program Professional Portion		
Community College credits		28
Transfer Credits		
American History or Origins of the Modern World		3
Anatomy and Physiology I		4
Anatomy and Physiology II		4
Biology I		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
Classes to Be Taken and Completed at Saint Louis University		
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
DIET 2080	Foundations in Nutrition	2
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 2310	Introduction to Clinical Medicine	3
ORES 2320	Interprofess Health Outcomes	2
PHIL 1050	Introduction to Philosophy: Self and Reality	3
THEO 1000	Theological Foundations	3
Radiation Therapy Curriculum		31
Total Credits		128

Program Notes

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
Prerequisite Courses		
Pre-Calculus		3
Principles of Chemistry I & II		8
General Physics I & II		8
Anatomy and Physiology I & II		8
Medical Ethics		3
Oral and Written Communication Elective		3
Basic Human Nutrition		2

Theology (Must complete a 3-hour theology course either prior to or part of the 12-month curriculum)	3
Total Credits	38

Courses to Be Taken at Saint Louis University

Course	Title	Credits
Year One		
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	Rad Onc Pat. Care & Qual Manag	3
XRT 4510	Radiobiology/Rad Protection	2
Credits		18
Spring		
XRT 4350	Clinical Practicum I	6
XRT 4420	Radiation Therapy Practice II	3
XRT 4440	Clinical Dosimetry	3
XRT 4960	Capstone in Radiation Therapy	1
Credits		13
Summer		
XRT 4450	Clinical Practicum II	0
Credits		0
Total Credits		31

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. It is also for the non-traditional student who may be working in another field, perhaps related to health care, who wishes to change careers.

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 show 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>. Application deadline is August 1st.

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.