

NUCLEAR MEDICINE TECHNOLOGY, B.S.

Nuclear medicine is a medical specialty that uses safe, painless and cost-effective techniques to image the body and treat disease. Nuclear medicine uses very small amounts of radioactive materials to diagnose and treat disease using gamma or PET/CT scanners. Nuclear medicine imaging is unique in that it documents organ function and structure. It is a method of gathering information that may otherwise be unavailable, require surgery or necessitate more expensive diagnostic tests.

Today, nuclear medicine offers procedures that are helpful to a broad span of medical specialties, from pediatrics to cardiology and oncology. There are almost 100 different nuclear medicine imaging procedures available that include every major organ of the human body.

Saint Louis University's Bachelor of Science in Nuclear Medicine Technology (NMT) prepares a graduate for an entry-level position as a nuclear medicine technologist. The program includes all basic sciences, as well as a 12-month intensive NMT curriculum that includes 1000 hours of clinical practicum. The nuclear medicine technology program offers curriculum tracks in pre-physician assistant and pre-medicine. Upon successful completion of the program, the graduate is eligible for national certification to become a Certified Nuclear Medicine Technologist (CNMT).

Nuclear medicine technology (NMT) students are encouraged to join and participate in the functions of the Saint Louis University Medical Imaging and Radiation Therapeutics Club.

Curriculum Overview

Advantages to earning your B.S. in nuclear medicine technology at Saint Louis University include:

- Opportunities to participate in professional conferences with faculty and fellow students
- A curriculum with an interprofessional focus to build a team approach to health care
- A flexible curriculum that allows adding a minor or studying abroad
- Medically relevant coursework ideal for pre-professional studies
- Undergraduate opportunities to conduct research and produce projects/papers acceptable for publication and presentation at professional conferences
- Pre-medicine and pre-physician assistant curriculum options
- Student-tailored educational curriculum and individual mentorship by faculty in the NMT profession
- The NMT program contains a strong science curriculum which aids in preparation for immediate job placement as well as future graduate-level education.
- The NMT program has exceptional clinical preceptors and training sites located conveniently within the St. Louis metropolitan area.

Fieldwork and Research Opportunities

Professional coursework in the nuclear medicine technology program is concentrated in the last year of study. Students in the NMT program have opportunities to conduct research and produce projects and papers that are acceptable for publication and could be presented at professional conferences.

Careers

Benefits of SLU's nuclear medicine technology program also include several career opportunities. Graduates can work as technologists in hospitals and clinics. Students may seek positions in information technology, healthcare administration, sales and training, radiopharmacy labs, teaching and other related fields.

Nuclear medicine provides an excellent pre-med curriculum. About 20 percent of graduates proceed to graduate school, with about 50 percent of the remaining class enrolling in graduate school within five years of employment. Many students attend graduate school part-time, with assistance from their place of employment.

Career advancement opportunities from the position of staff technologist may lead to areas of administration, education, sales or research.

A nuclear medicine technologist has many responsibilities that encompass a wide range of skills. Some responsibilities include:

- Preparing, calibrating and administering radioactive chemical compounds, known as radiopharmaceuticals.
- Performing diagnostic imaging procedures using radiation-detection technology.
- Administering radioactive tracers used to image the organs of the human body.
- Operating imaging technology, laboratory and computer instrumentation.
- Providing images, data analysis and patient information to the physician for diagnostic interpretation.

The median annual wage for nuclear medicine technologists is \$75,660 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 2.70/4.00

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

The Joint Review Committee on Educational Programs in Nuclear Medicine Technology

820 W. Danforth Rd. #B1
Edmond, OK 73003
(405) 285-0546
<http://jrcnmt.org>

Additional Accreditation Information (<https://www.slu.edu/doisy/degrees/program-pdfs/nmt-accreditation-1018.pdf>)

JRCNMT Graduate Outcomes Report (<https://www.jrcnmt.org/students/program-graduate-outcomes>)

Learning Outcomes

1. Graduates will be able to demonstrate Jesuit values as they perform diagnostic imaging procedures.
2. Graduates will be able to demonstrate effective communication skills with both patients and other healthcare professionals in the nuclear medicine department.
3. Graduates will be able to demonstrate critical thinking and problem solving skills.
4. Graduates will be able to demonstrate the ability to translate didactic knowledge into clinical practice as a nuclear medicine technologist.
5. Graduates will be able to exhibit professional characteristics expected of nuclear medicine technologists.

Requirements

Students in Saint Louis University's nuclear medicine technology major take the following courses.

Standard 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
CHEM 1083	Principles of Chemistry 1 with Lab	4
CHEM 1483	Principles of Chemistry 2	4
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2XXX	Literature	3
HIM 4150	Quality Improvement	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2000	The U.S. Health Care System	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	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
MATH 1200	College Algebra	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3

PHIL 2050	Ethics	3
PHIL 3360	Medical Ethics	3
	or HCE 3040 Mindfulness & the Ethics of Healthcare	
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
Nuclear Medicine Technology		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4910	Clinical Practicum	0
NMT 4960	Capstone in Nuclear Medicine	1
Total Credits		121

Pre-Medicine 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 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
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2XXX	Literature	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2000	The U.S. Health Care System	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSI 2200	Medical Terminology	3
HSI 3300	Anatomy & Physiology I	3
HSI 3310	Anatomy & Physiology I Lab	1
HSI 3400	Anatomy & Physiology II	3
HSI 3410	Anatomy & Physiology II Lab	1
MATH 1300	Elementary Statistics with Computers	3

MATH 1400	Pre-Calculus	3
MATH 1510	Calculus I	4
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHIL 3360	Medical Ethics	3
or HCE 3040	Mindfulness & the Ethics of Healthcare	
PHYS 1310	Physics I	4
& PHYS 1320	and Physics I Laboratory	
PHYS 1330	Physics II	4
& PHYS 1340	and Physics II Laboratory	
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
Nuclear Medicine Technology		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4910	Clinical Practicum	0
NMT 4960	Capstone in Nuclear Medicine	1
Total Credits		130

Pre-Physician Assistant and PA Scholar Track

Code	Title	Credits
Foundation		
BIOL 1240	Principles of Biology I	4
& BIOL 1245	and Principles of Biology I Laboratory	
BIOL 1260	Principles of Biology II	4
& BIOL 1265	and Principles of Biology II Laboratory	
BIOL 3020	Biochemistry and Molecular Biology	3
BIOL 3030	Principles of Genetics	3
BLS 4510	Medical Microbiology	4
CHEM 1110	General Chemistry 1	4
& CHEM 1115	and General Chemistry 1 Laboratory	
CHEM 1120	General Chemistry 2	4
& CHEM 1125	and General Chemistry 2 Laboratory	
CHEM 2410	Organic Chemistry 1	4
& CHEM 2415	and Organic Chemistry 1 Laboratory	
CHEM 2420	Organic Chemistry 2	4
& CHEM 2425	and Organic Chemistry 2 Laboratory	
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2XXX	Literature	3
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2000	The U.S. Health Care System	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSI 2200	Medical Terminology	3
HSI 3300	Anatomy & Physiology I	4
& HSI 3310	and Anatomy & Physiology I Lab	

HSI 3400	Anatomy & Physiology II	4
& HSI 3410	and Anatomy & Physiology II Lab	
MATH 1200	College Algebra	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
PHIL 3360	Medical Ethics	3
or HCE 3040	Mindfulness & the Ethics of Healthcare	
PHYS 1220	General Physics I	4
PHYS 1240	General Physics II	4
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Fine Art (Cultural Studies, Art, Dance, Music, Theater)		3
Nuclear Medicine Technology		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4910	Clinical Practicum	0
NMT 4960	Capstone in Nuclear Medicine	1
Total Credits		130

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		
CHEM 1083	Principles of Chemistry 1 with Lab	4
CHEM 1483	Principles of Chemistry 2	4
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 2000	The U.S. Health Care System	3

HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 3360	Medical Ethics	3
or HCE 3040	Mindfulness & the Ethics of Healthcare	
THEO 1000	Theological Foundations	3
Nuclear Medicine Technology		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4910	Clinical Practicum	0
NMT 4960	Capstone in Nuclear Medicine	1
Total Credits		131

Second Degree Option for Students with Bachelor's Degree

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

Code	Title	Credits
Transfer Credits		
Transfer credits		56
Prerequisite Courses		
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
Healthcare or Medical Ethics		3
Oral and Written Communication		3
Theology		3
Nuclear Medicine Technology		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4910	Clinical Practicum	0
NMT 4960	Capstone in Nuclear Medicine	1
Total Credits		121

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
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
MATH 1200	College Algebra	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		13
Spring		
CHEM 1483	Principles of Chemistry 2	4
MATH 1300	Elementary Statistics with Computers	3
MATH 1320	Survey of Calculus	3
PSY 1010	General Psychology	3
XXXX	English Literature Elective	3
Credits		16
Year Two		
Fall		
! BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
HSCI 2000	The U.S. Health Care System	3
HSI 2200	Medical Terminology	3
PHIL 2050	Ethics	3
Credits		13
Spring		
! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
PHIL 3360 or HCE 2010	Medical Ethics or Foundations in Clinical Health Care Ethics	3
THEO 1000	Theological Foundations	3
XXXX	Fine Arts Elective	3
Credits		13
Year Three		
Fall		
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3200	Health Law and Policy	3

HSCI 3700	Research Methods	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
PHYS 1220	General Physics I	4
Credits		17

Spring

HIM 4150	Quality Improvement	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
PHYS 1240	General Physics II	4
SOC 1100	Introduction to Sociology	3
XXXX	Humanities Elective	3
Credits		17

Year Four

Fall

NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
Credits		18

Spring

NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4960	Capstone in Nuclear Medicine	1
Credits		14

Summer

NMT 4910	Clinical Practicum	0
Credits		0
Total Credits		121

Pre-Medicine 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
MATH 1400	Pre-Calculus	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PSY 1010	General Psychology	3
Credits		17
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
PHIL 1050	Introduction to Philosophy: Self and Reality	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
HSCI 2000	The U.S. Health Care System	3
PHIL 2050	Ethics	3
XXXX	English Literature Elective	3
Credits		16

Spring

BIOL 3040	Cell Structure & Function	3
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
MATH 1300	Elementary Statistics with Computers	3
PHIL 3360 or HCE 2010	Medical Ethics or Foundations in Clinical Health Care Ethics	3
THEO 1000	Theological Foundations	3
Credits		16

Year Three

Fall

HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
! PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory	4
Credits		17

Spring

HSI 2200	Medical Terminology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
! PHYS 1330 & PHYS 1340	Physics II and Physics II Laboratory	4
SOC 1100	Introduction to Sociology	3
XXXX	Fine Arts Elective	3
Credits		17

Year Four

Fall

NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
Credits		18

Spring

NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4960	Capstone in Nuclear Medicine	1
Credits		14

Summer

NMT 4910	Clinical Practicum	0
Credits		0
Total Credits		130

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
MATH 1200	College Algebra	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PSY 1010	General Psychology	3
Credits		17

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 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		14

Year Two

Fall		
BIOL 3020	Biochemistry and Molecular Biology	3
! CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
HSCI 2000	The U.S. Health Care System	3
HSCI 3200	Health Law and Policy	3
PHIL 2050	Ethics	3
Credits		16

Spring

BIOL 3030	Principles of Genetics	3
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
MATH 1300	Elementary Statistics with Computers	3
PHIL 3360 or HCE 2010	Medical Ethics or Foundations in Clinical Health Care Ethics	3
THEO 1000	Theological Foundations	3
Credits		16

Year Three

Fall		
BLS 4510	Medical Microbiology	4
HIM 4750	Fundamentals of Clinical Medicine	3

HSCI 3700	Research Methods	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
PHYS 1220	General Physics I	4
Credits		18

Spring

HSI 2200	Medical Terminology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
PHYS 1240	General Physics II	4
XXXX	English Literature Elective	3
XXXX	Fine Arts Elective	3
Credits		17

Year Four

Fall		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
Credits		18

Spring

NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4960	Capstone in Nuclear Medicine	1
Credits		14

Summer

NMT 4910	Clinical Practicum	0
Credits		0
Total Credits		130

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 Assistant 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
MATH 1200	College Algebra	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PSY 1010	General Psychology	3
Credits		17

Spring

! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
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! CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		14

Year Two

Fall

BIOL 3020	Biochemistry and Molecular Biology	3
! CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
HSCI 2000	The U.S. Health Care System	3
HSCI 3200	Health Law and Policy	3
PHIL 2050	Ethics	3
Credits		16

Spring

BIOL 3030	Principles of Genetics	3
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
MATH 1300	Elementary Statistics with Computers	3
PHIL 3360 or HCE 2010	Medical Ethics or Foundations in Clinical Health Care Ethics	3
THEO 1000	Theological Foundations	3
Credits		16

Year Three

Fall

BLS 4510	Medical Microbiology	4
HIM 4750	Fundamentals of Clinical Medicine	3
HSCI 3700	Research Methods	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
PHYS 1220	General Physics I	4
Credits		18

Spring

HSI 2200	Medical Terminology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
PHYS 1240	General Physics II	4
XXXX	English Literature Elective	3
XXXX	Fine Arts Elective	3
Credits		17

Year Four

Fall

NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
Credits		18

Spring

NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3

NMT 4960	Capstone in Nuclear Medicine	1
Credits		14

Summer

NMT 4910	Clinical Practicum	0
Credits		0
Total Credits		130

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 Degree in Radiography

Code	Title	Credits
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AAS Radiography Program Professional Portion

Community College credits		28
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Transfer Credits to Be Completed at Community College

American History (Origins of the Modern World also accepted)		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
HSCI 2000	The U.S. Health Care System	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1320	Survey of Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 3360	Medical Ethics	3
THEO 1000	Theological Foundations	3
Pathophysiology		3
Nuclear Medicine Technology Curriculum		32
Total Credits		131

Program Notes

Selection for student admission is on a space available basis, and final acceptance decision is made by the Nuclear Medicine Technology Program Director.

Second Baccalaureate Degree Track

Code	Title	Credits
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Prerequisite Courses

College Algebra		3
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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
Theology	3
Total Credits	36

Courses to Be Taken at Saint Louis University

Course	Title	Credits
Year One		
Fall		
NMT 4310	Radiation Physics and Radiation Protection	4
NMT 4320	Radiochemistry/Radiopharmacy	3
NMT 4330	Nuclear Med Instrumentation	3
NMT 4340	Clinical Nuclear Medicine	5
NMT 4350	Nuclear Medicine Information Systems	3
	Credits	18
Spring		
NMT 4410	Imaging Clinical Practicum	7
NMT 4420	Radiopharmacy Clin. Practicum	3
NMT 4430	Emerging Technologies	3
NMT 4960	Capstone in Nuclear Medicine	1
	Credits	14
Summer		
NMT 4910	Clinical Practicum	0
	Credits	0
	Total Credits	32

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 Nuclear Medicine Technology. This option is for a student who already possesses a bachelor's degree and is motivated to become a practicing Nuclear Medicine Technologist in 12 months.

To be considered for the second baccalaureate degree option, 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 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 Nuclear Medicine Technologist. 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.

Selection Factors: Among the parameters considered by the Selection Committee are:

- Applicant's academic potential as evidenced by previous performance in college
- Specific motivation toward pursuit of a health care profession
- Evidence of sound judgment
- Interpersonal and communication skills
- Job shadowing of a Nuclear Medicine Department is highly recommended