

## HEALTH SCIENCES, B.S.

Saint Louis University's undergraduate degree in health sciences is a path for students interested in entering clinically related health fields. It also provides a solid scientific and health-oriented curriculum for professional or graduate education. Our goal is to prepare students for professional and research careers in the rapidly changing world of health, with special emphasis on the holistic context in which health care is delivered.

The health care industry is growing and changing rapidly. A new generation of health professionals will be needed to examine old problems from a fresh perspective and arrive at innovative theories, policies and technologies that address emerging health concerns. Students prepare for these challenges by offering curricular tracks in pre-medicine, medical scholar, pre-dentistry, pre-physician assistant, pre-pharmacy pre-physical therapy, pre-occupational therapy, and a general health science curriculum with a minor. Each curricular track is optimized to prepare students for both graduate studies and the workforce.

- The program provides a holistic view of health care that serves as a great pre-professional option for students going on to graduate education.
- In addition to learning about health sciences, anatomy and physiology, students will also learn about research methods, health care management, health care technology, health care policy and law and more.
- Faculty members provide tremendous mentorship to help the students at every phase of their education.

Advantages to earning your B.S. in health sciences at Saint Louis University include:

- A Jesuit-based education with a mission to prepare professionals who possess the competence, compassion and conduct requisite to a health professional
- A flexible curriculum that allows for diverse areas of concentration
- Instruction by professionally credentialed faculty
- Medically relevant coursework ideal for a variety of post-baccalaureate study choices

### Curriculum Overview

The health sciences program at Saint Louis University offers a flexible curriculum that prepares students for a variety of health career environments.

The curriculum is built on a strong science foundation that threads a holistic approach to understanding health care throughout the educational model.

SLU's health sciences program will provide freshman students with:

- A solid, scientific baseline for pre-professional and/or pre-med scholars for entry into post-baccalaureate studies after graduating
- A path for those interested in entering a nonclinical, health-related fields

The health sciences degree requires a minimum of 120 credits for degree completion. Most importantly, the program strives to equip graduates to understand the health care system and its complexities while still providing a solid scientific knowledge base.

### Careers

The majority of students with a bachelor's degree in health sciences go on to medical school, graduate school or other post-baccalaureate studies. Students are also prepared for non-clinical employment opportunities within health care, such as:

- Health care coordinator: The point of contact to help coordinate patient support and services. As the liaison between patients, families, medical staff and services, coordinators provide management of the health and well-being of the patient.
- Case manager in home health agencies, health care management companies, the insurance industry or elderly care settings: Assists in management of daily operations and provides support to multidisciplinary team to ensure quality patient care is delivered.
- Health services manager: Provides management and direction to the physician or health care organization including staffing, training, monitoring, evaluating and compliance. Managers assist in the identification of potential quality improvement issues and policy and procedure development.
- Privacy officer: Responsible for managing the risks and business impacts of privacy laws and policies and for protecting the patient information that is collected and stored by health care facilities.
- Corporate wellness administrator: Responsible for the implementation and day-to-day management of employee, community and worksite wellness programs. Administrators manage wellness program services by implementing sustainable health promotion programs that target populations across the organization based on the individual company needs.
- Medicolegal death investigator: Assists the deputy chief with the investigation of sudden and unexpected deaths. Develops and evaluates information obtained from observations, interviews and reviews of various records.
- Patient advocate/patient navigator: Serves as the liaison between a patient and their health care provider(s). Advocates are dedicated to coordinating the patient's medical care, getting them the needed help and working with the family.
- Health literacy educator: Assists consumers in understanding the health care system in plain language using health literacy skills.

### Admission Requirements

Admission consideration for the program in health sciences is initially based on a strong overall academic background.

**Admission criteria include:**

- High School diploma or acceptable score on the General Educational Development Test (GED)
- GPA of 2.50 or greater on a 4.00 scale
- Minimum ACT composite score of 20

Transfer applicants are encouraged to meet with the program director for evaluation of their transcript. The transfer admissions process for the health science program follows Saint Louis University's transfer policies and procedures.

### 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>.

## Learning Outcomes

1. Graduates will be able to communicate effectively to express issues in healthcare.
2. Graduates will be able to implement healthcare management tools to utilize project management techniques.
3. Graduates will be able to demonstrate effective team skills when collaborating on healthcare projects.
4. Graduates will be able to employ data from empirical research to inform positions on healthcare issues.
5. Graduates will be able to exhibit ethical behaviors related to health sciences that are rooted in Jesuit values.

## Requirements

Students in SLU's health sciences major take the following courses.

### Standard Track

Code	Title	Credits
<b>Foundation</b>		
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
CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
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
PSY 1010	General Psychology	3
PSY 4390	Abnormal Psychology	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
Social Science (Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)		3
Fine Art (Foreign Language, Cultural Studies, Art, Dance, Music, Theater)		3
PHIL 2050 or HCE 2010	Ethics Foundations in Clinical Health Care Ethics	3

### Health Sciences

HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HSI 2100	Health Care 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
<b>General Electives</b>		17
Total Credits		120

### Medical Scholar Track

Code	Title	Credits
<b>Foundation</b>		
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
CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1510	Calculus I	4
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050 or HCE 2010	Ethics Foundations in Clinical Health Care Ethics	3
PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory	4
PHYS 1330 & PHYS 1340	Physics II and Physics II Laboratory	4
PPHS 1000	Foundations of Medicine (Optional course)	1
PPHS 1050	Medical Scholar	0
PSY 1010	General Psychology	3
PSY 3930	Special Topics	3
PSY 4390	Abnormal Psychology	3

THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
Fine Art (Foreign Language, Cultural Studies, Art, Dance, Music, Theater)		
<b>Biology Electives</b>		
Select two of the following:		
BIOL 3420	Comparative Anatomy of the Vertebrates	6
BIOL 3440	Embryology	
BIOL 4150	Nerve Cell Mechanisms in Behavior	
BIOL 4410	Comparative Animal Physiology	
BIOL 4440	Vertebrate Histology: Structure and Function of Tissues	
BIOL 4500	Introductory Endocrinology	
BIOL 4540	Human Systemic Physiology	
BIOL 4600	Developmental Biology	
BIOL 4630	Foundations of Immunobiology	
BIOL 4640	General Microbiology	
BIOL 4700	Molecular Biology	
<b>Health Sciences</b>		
HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HSI 2100	Health Care Management	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	
Total Credits		127

### Pre-Physician Assistant and PA Scholar Track

Code	Title	Credits
<b>Foundation</b>		
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	
CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1400	Pre-Calculus	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
or HCE 2010	Foundations in Clinical Health Care Ethics	
PSY 1010	General Psychology	3
PSY 3930	Special Topics	3
PSY 4390	Abnormal Psychology	3
THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
Fine Art (Foreign Language, Cultural Studies, Art, Dance, Music, Theater)		
<b>Health Sciences</b>		
HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HSI 2100	Health Care Management	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	
<b>General Electives</b>		
		5
Total Credits		120

### Pre-Medicine Track

Code	Title	Credits
<b>Foundation</b>		
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 3040	Cell Structure & Function	3
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	

CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1510	Calculus I	4
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
or HCE 2010	Foundations in Clinical Health Care Ethics	
PHYS 1310	Physics I	4
& PHYS 1320	and Physics I Laboratory	
PHYS 1330	Physics II	4
& PHYS 1340	and Physics II Laboratory	
PPHS 1000	Foundations of Medicine (Optional course)	1
PSY 1010	General Psychology	3
PSY 3930	Special Topics	3
PSY 4390	Abnormal Psychology	3
THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
Fine Art (Foreign Language, Cultural Studies, Art, Dance, Music, Theater)		3
<b>Health Sciences</b>		
HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HSI 2100	Health Care Management	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	
Total Credits		121

**Pre-Pharm.D. Track**

Code	Title	Credits
<b>Foundation</b>		
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 3040	Cell Structure & Function	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	
CMM 1200	Public Speaking	3
ECON 1900	Principles of Economics	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1510	Calculus I	4
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
or HCE 2010	Foundations in Clinical Health Care Ethics	
PHYS 1310	Physics I	4
& PHYS 1320	and Physics I Laboratory	
PSY 1010	General Psychology	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
<b>Health Sciences</b>		
HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	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	
<b>General Electives</b>		
Total Credits		120

**Pre-Occupational Therapy Track**

Code	Title	Credits
<b>Foundation</b>		
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	
CHEM 1083	Principles of Chemistry 1 with Lab	4
CHEM 1483	Principles of Chemistry 2	4
CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
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
or HCE 2010	Foundations in Clinical Health Care Ethics	
PHYS 1220	General Physics I	4
PSY 1010	General Psychology	3
PSY 4390	Abnormal Psychology	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
Social Science (Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)		3
Fine Art (Foreign Language, Cultural Studies, Art, Dance, Music, Theater)		3
<b>Health Sciences</b>		
HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HSI 2100	Health Care Management	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	
<b>Electives</b>		
Select 15 credits		15
Total Credits		122

### Pre-Physical Therapy Track

Code	Title	Credits
<b>Foundation</b>		
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 3480	Exercise Physiology	3
CHEM 1083	Principles of Chemistry 1 with Lab	4
CHEM 1483	Principles of Chemistry 2	4
CMM 1200	Public Speaking	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
ENGL 2xxx	Literature Elective	3
MATH 1400	Pre-Calculus	3
MATH 1300	Elementary Statistics with Computers	3
MATH 1510	Calculus I	4
PHIL 1050	Introduction to Philosophy: Self and Reality	3
PHIL 2050	Ethics	3
or HCE 2010	Foundations in Clinical Health Care Ethics	
PHYS 1220	General Physics I	4

PHYS 1240	General Physics II	4
PSY 1010	General Psychology	3
PSY 4390	Abnormal Psychology	3
SOC 1100	Introduction to Sociology	3
THEO 1000	Theological Foundations	3
THEO 2xxx	Theology Elective	3
Social Science (Anthropology, Political Science, Criminal Justice, Sociology, Select Psychology, Urban Politics)		3
Fine Art (Foreign Language, Cultural Studies, Art, Dance, Music, Theater)		3
<b>Health Sciences</b>		
HSCI 1000	Introduction to Health Sciences	1
HSCI 2000	The U.S. Health Care System	3
HSCI 2500	Human Development across the Lifespan	3
HSCI 3200	Health Law and Policy	3
HSCI 3700	Research Methods	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HSI 2100	Health Care Management	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	
<b>General Electives</b>		
Total Credits		121

### 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
<b>Year One</b>		
<b>Fall</b>		
! BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
HSCI 1000	Introduction to Health Sciences	1
MATH 1200	College Algebra	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		14

<b>Spring</b>		
! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
MATH 1320	Survey of Calculus	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
XXXX	Elective	3
Credits		16

<b>Year Two</b>		
<b>Fall</b>		
CHEM 1083	Principles of Chemistry 1 with Lab	4
HSCI 2000	The U.S. Health Care System	3
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
MATH 1300	Elementary Statistics with Computers	3
Credits		16

<b>Spring</b>		
CHEM 1483	Principles of Chemistry 2	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
SOC 1100	Introduction to Sociology	3
XXXX: Elective		3
Credits		16

<b>Year Three</b>		
<b>Fall</b>		
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
XXXX	Elective	3
2XXX	Literature Elective	3
Credits		16

<b>Spring</b>		
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
PSY 4390	Abnormal Psychology	3
XXXX	Fine Art Elective	3
Credits		13

<b>Year Four</b>		
<b>Fall</b>		
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
XXXX	Elective	3
XXXX	Elective	3
XXXX	Social Science Elective	3
Credits		15

<b>Spring</b>		
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3

THEO 2XXX	Theology Elective	3
XXXX	Elective	3
Credits		15
Total Credits		121

## Medical Scholar Track

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
! 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
HSCI 1000	Introduction to Health Sciences	1
MATH 1510	Calculus I	4
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
Credits		16

<b>Spring</b>		
! 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
PPHS 1000	Foundations of Medicine (! Optional)	1
MATH 1300	Elementary Statistics with Computers	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
Credits		18

<b>Year Two</b>		
<b>Fall</b>		
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
PPHS 1050	Medical Scholar	0
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
Credits		16

<b>Spring</b>		
BIOL 3040	Cell Structure & Function	3
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		16

<b>Year Three</b>		
<b>Fall</b>		
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
PSY 3930	Special Topics	3
Credits		17
<b>Spring</b>		
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
! PHYS 1330 & PHYS 1340	Physics II and Physics II Laboratory	4
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
PSY 4390	Abnormal Psychology	3
XXXX	Elective	3
Credits		17
<b>Year Four</b>		
<b>Fall</b>		
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
XXXX	Fine Art Elective	3
BIOL XXXX	Upper Division Biology Elective	3
2XXX	Literature Elective	3
Credits		15
<b>Spring</b>		
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
BIOL XXXX	Upper Division Biology Elective	3
THEO 2XXX	Theology Elective	3
Credits		15
Total Credits		130

### Program Notes

Courses substituted in place of electives or added to curriculum as required courses for post-baccalaureate medical school programs are not guaranteed to meet all the pre-requisite requirements of all institutions. It is the responsibility of the student to contact their desired institution for post-baccalaureate study to identify the specific pre-requisite courses required for their area of study.

### Pharmacy Scholars & Pharm.D. Accelerated Track

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
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
ECON 1900	Principles of Economics	3
HSCI 1000	Introduction to Health Sciences	1
MATH 1510	Calculus I	4
Credits		16
<b>Spring</b>		
! 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
CMM 1200	Public Speaking	3
MATH 1300	Elementary Statistics with Computers	3
THEO 1000	Theological Foundations	3
Credits		17
<b>Summer</b>		
ENGL 1900	Advanced Strategies Of Rhetoric and Research †	3
HSI 2200	Medical Terminology	3
Credits		6
<b>Year Two</b>		
<b>Fall</b>		
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
PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory	4
Credits		17
<b>Spring</b>		
BIOL 3040	Cell Structure & Function	3
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2500	Human Development across the Lifespan	3
PSY 1010	General Psychology	3
THEO 2XXX	Theology Elective	3
Credits		16
<b>Summer</b>		
SOC 1100	Introduction to Sociology	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
Credits		6
<b>Year Three</b>		
<b>Fall</b>		
BIOL 4640 & BIOL 4650	General Microbiology and General Microbiology Laboratory	5
HSCI 3700	Research Methods †	3
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
! HSI 3300 & HSI 3310	Anatomy & Physiology I and Anatomy & Physiology I Lab	4
Credits		18
<b>Spring</b>		
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management †	3
ENGL 2XXX	English Literature Elective †	3
HCE 2010	Foundations in Clinical Health Care Ethics	3
Credits		16

**Year Four****Fall**

HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
XXXX	Elective	3
XXXX	Elective	3
XXXX	Social Science Elective	3
Credits		15

**Spring**

HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
THEO 2XXX	Theology Elective	3
XXXX	Elective	3
Credits		15
Total Credits		142

† Writing intensive course

‡ ENGL 1900 satisfies Composition I requirement; ENGL 2XXX satisfies Composition II requirement

**Program Notes**

Students will spend 3-years at Saint Louis University in the Bachelor of Science in Health Sciences program. They will spend 4-years at St. Louis College of Pharmacy. The Bachelor of Science in Health Sciences will be awarded after completion of their first Pharm.D. Professional Year.

Please visit St. Louis College of Pharmacy's website for more information about the PharmD portion of this degree at [www.stlcp.edu](http://www.stlcp.edu) (<http://catalog.slu.edu/colleges-schools/health-sciences/clinical-health-sciences/health-sciences-bs/www.stlcp.edu>).

**Pre-Physician Assistant Track**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
! 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
HSCI 1000	Introduction to Health Sciences	1
MATH 1400	Pre-Calculus	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
Credits		15
<b>Spring</b>		
! 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 1300	Elementary Statistics with Computers	3
PSY 1010	General Psychology	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
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
Credits		16

**Spring**

! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
XXXX	Fine Arts Elective	3
Credits		16

**Year Three****Fall**

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
PSY 3930	Special Topics	3
XXXX	Elective	3
Credits		16

**Spring**

BIOL 3030	Principles of Genetics	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
PSY 4390	Abnormal Psychology	3
Credits		13

**Year Four****Fall**

BLS 4510	Medical Microbiology	4
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
THEO 1000	Theological Foundations	3
2XXX	Literature Elective	3
Credits		16

**Spring**

HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
THEO 2XXX	Theology Elective	3
XXXX	Elective	3
Credits		15
Total Credits		121



**Program Notes**

Courses substituted in place of electives or added to curriculum as required courses for post-baccalaureate PA Programs are not guaranteed to meet all the pre-requisite requirements of all institutions. It is the responsibility of the student to contact their desired institution for post-baccalaureate study to identify the specific pre-requisite courses required for their area of study.

**Physician Assistant Scholars Track**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
! 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
HSCI 1000	Introduction to Health Sciences	1
MATH 1400	Pre-Calculus	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
	Credits	15
<b>Spring</b>		
! 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 1300	Elementary Statistics with Computers	3
PSY 1010	General Psychology	3
	Credits	14
<b>Year Two</b>		
<b>Fall</b>		
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
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
	Credits	16
<b>Spring</b>		
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
XXXX	Fine Arts Elective	3
	Credits	16
<b>Year Three</b>		
<b>Fall</b>		
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
PSY 3930	Special Topics	3

XXXX	Elective	3
	Credits	16
<b>Spring</b>		
BIOL 3030	Principles of Genetics	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
PSY 4390	Abnormal Psychology	3
	Credits	13
<b>Year Four</b>		
<b>Fall</b>		
BLS 4510	Medical Microbiology	4
HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
THEO 1000	Theological Foundations	3
2XXX	Literature Elective	3
	Credits	16
<b>Spring</b>		
HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
THEO 2XXX	Theology Elective	3
XXXX	Elective	3
	Credits	15
	Total Credits	121

**Program Notes**

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

**Pre-Medicine Track**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
! 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
HSCI 1000	Introduction to Health Sciences	1
MATH 1510	Calculus I	4
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
	Credits	16
<b>Spring</b>		
! 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
PPHS 1000	Foundations of Medicine (! Optional)	1
MATH 1300	Elementary Statistics with Computers	3
PSY 1010	General Psychology	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
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
	Credits	16

**Spring**

BIOL 3040	Cell Structure & Function	3
! CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
	Credits	16

**Year Three****Fall**

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
PSY 3930	Special Topics	3
	Credits	17

**Spring**

! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
! PHYS 1330 & PHYS 1340	Physics II and Physics II Laboratory	4
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
PSY 4390	Abnormal Psychology	3
	Credits	14

**Year Four****Fall**

HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
THEO 1000	Theological Foundations	3
XXXX	Fine Art Elective	3
2XXX	Literature Elective	3
	Credits	15

**Spring**

HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
THEO 2XXX	Theology Elective	3
XXXX	Elective	3
	Credits	15
	Total Credits	124

**Program Notes**

Courses substituted in place of electives or added to curriculum as required courses for post-baccalaureate medical school programs are not guaranteed to meet all the pre-requisite requirements of all institutions. It is the responsibility of the student to contact their desired institution for post-baccalaureate study to identify the specific pre-requisite courses required for their area of study.

**Pre-Occupational Therapy Track**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
! BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
HSCI 1000	Introduction to Health Sciences	1
MATH 1200	College Algebra	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
	Credits	14
<b>Spring</b>		
BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
MATH 1320	Survey of Calculus	3
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
XXXX	Elective	3
	Credits	16
<b>Year Two</b>		
<b>Fall</b>		
CHEM 1083	Principles of Chemistry 1 with Lab	4
HSCI 2000	The U.S. Health Care System	3
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
MATH 1300	Elementary Statistics with Computers	3
	Credits	16
<b>Spring</b>		
CHEM 1483	Principles of Chemistry 2	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
SOC 1100	Introduction to Sociology	3
XXXX	Elective	3
	Credits	16
<b>Year Three</b>		
<b>Fall</b>		
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
THEO 2XXX	Theology Elective	3
	Credits	17

**Spring**

HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
PSY 4390	Abnormal Psychology	3
XXXX	Elective	3
XXXX	Fine Art Elective	3
	Credits	13

**Year Four****Fall**

HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
XXXX	Elective	3
XXXX	Social Science Elective	3
2XXX	Literature Elective	3
	Credits	15

**Spring**

HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
XXXX	Elective	3
	Credits	15
	Total Credits	122

**Program Notes**

Courses substituted in place of electives or added to curriculum as required courses for post-baccalaureate MOT programs are not guaranteed to meet all the pre-requisite requirements of all institutions. It is the responsibility of the student to contact their desired institution for post-baccalaureate study to identify the specific pre-requisite courses required for their area of study.

**Pre-Physical Therapy Track**

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
! BIOL 1240 & BIOL 1245	Principles of Biology I and Principles of Biology I Laboratory	4
HSCI 1000	Introduction to Health Sciences	1
MATH 1400	Pre-Calculus	3
ENGL 1900	Advanced Strategies Of Rhetoric and Research	3
PHIL 1050	Introduction to Philosophy: Self and Reality	3
	Credits	14
<b>Spring</b>		
! BIOL 1260 & BIOL 1265	Principles of Biology II and Principles of Biology II Laboratory	4
MATH 1510	Calculus I	4
PSY 1010	General Psychology	3
THEO 1000	Theological Foundations	3
	Credits	14

**Year Two****Fall**

CHEM 1083	Principles of Chemistry 1 with Lab	4
HSCI 2000	The U.S. Health Care System	3
HSI 2200	Medical Terminology	3
CMM 1200	Public Speaking	3
MATH 1300	Elementary Statistics with Computers	3
	Credits	16

**Spring**

CHEM 1483	Principles of Chemistry 2	4
HSCI 2500	Human Development across the Lifespan	3
HSI 2100	Health Care Management	3
SOC 1100	Introduction to Sociology	3
XXXX	Elective	3
	Credits	16

**Year Three****Fall**

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
THEO 2XXX	Theology Elective	3
	Credits	17

**Spring**

BIOL 3490	Plant Physiology	3
! HSI 3400 & HSI 3410	Anatomy & Physiology II and Anatomy & Physiology II Lab	4
PHYS 1240	General Physics II	4
PSY 4390	Abnormal Psychology	3
	Credits	14

**Year Four****Fall**

HSCI 4000	Neuroscience in Everyday Life	3
HSCI 4100	Healthcare Technology	3
XXXX	Elective	3
XXXX	Social Science Elective	3
2XXX	Literature Elective	3
	Credits	15

**Spring**

HSCI 4500	Hot Topics in Health Care	3
HSCI 4600	Consumer Health	3
HSCI 4700	Quality Management	3
HCE 2010 or PHIL 2050	Foundations in Clinical Health Care Ethics or Ethics	3
XXXX	Fine Art Elective	3
	Credits	15
	Total Credits	121

**Program Notes**

Courses substituted in place of electives or added to curriculum as required courses for post-baccalaureate DPT programs are not guaranteed to meet all the pre-requisite requirements of all institutions.

It is the responsibility of the student to contact their desired institution for post-baccalaureate study to identify the specific pre-requisite courses required for their area of study.