MEDICAL SCIENCES, B.S.

Saint Louis University’s medical sciences program meets the needs of students considering a wide variety of career paths in the health sciences. It is designed mainly as a pre-professional program for students looking to advance in health care education. It is ideal preparation for medical, physician assistant, dental, pharmacy, optometry or other health-related graduate programs.

SLU’s medical sciences program:

- Focuses on human health and diagnostic studies
- Consistently has a low student-faculty ratio which allows for more individualized attention
- Provides students opportunities to conduct research with faculty members, to present their research findings at professional conferences and to have their work published in various journals

Curriculum Overview

SLU’s medical sciences curriculum provides graduates with the knowledge and skills to enhance their competitive edge in seeking employment or further their education in professional programs, especially medical and physician assistant schools.

This curriculum offers:

- Basic science courses that are required for the Medical College Admission Test (MCAT) and for admission into medical school
- A strong foundation in both basic sciences and medical courses in various areas of diagnostic medicine such as urinalysis and body fluids, medical biochemistry, hematology and hemostasis, fundamental immunology, immunohematology and medical microbiology
- An excellent option for medical and physician assistant scholars
- A uniquely flexible curriculum that includes ample elective credits that can be used to earn a second major, minor, certificate, or combination to meet the student’s professional goals. Pre-medicine, Medical Scholar, pre-physician assistant (PA) and PA Scholars curricula are the main options for degree candidates.
- An active student association sponsoring service projects, social events, fundraisers and trips to professional conferences
- Opportunities for research

Clinical and Research Opportunities

Students will have the opportunity to conduct research and produce projects and papers for publication and presentation at professional conferences.

Careers

The advantages of SLU’s medical sciences program include a wide range of career paths available to graduates. They include:

- **Professional School and Programs**
  - Medical, dental, optometry, physician assistant
  - Veterinary science, public health
  - Federal, state or municipal crime laboratory programs
- **Graduate School**
  - Pathology, microbiology, pharmacology
  - Physiology, forensic science

- **Medical Research**
  - National Institutes of Health
  - Centers for Disease Control
  - Pharmaceutical research
  - Universities
- **Other Career Options**
  - Biotechnology technician
  - Pharmaceutical technical or sales representative

Admission Requirements

Freshmen Applicants

Solid academic performance in college preparatory coursework is the primary consideration when freshmen applications are reviewed.

Admission criteria include:

- Minimum cumulative GPA of 3.00 on a 4.00 scale.
- Four years of high school math (with algebra), biology, chemistry, and English, with some physics recommended
- Saint Louis University has moved to a test-optional admission process for all undergraduate programs. Applicants may submit standardized test scores, but those who choose not to will not be disadvantaged in any way in the admission process.

Transfer Applicants

Transfer applicants must have at least a 2.50 GPA in math and science coursework and a 2.50 cumulative GPA from an accredited college-level institution. Interested applicants who do not meet all the admission requirements should still apply for individual consideration.

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, seniors and graduate students.
- **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, see the Doisy College Scholarship page (https://www.slu.edu/doisy/about/scholarships-for-current-students.php).

Learning Outcomes

1. Graduates will be able to demonstrate the Jesuit value of “women and men for and with others” to promote service in the medical sciences.
2. Graduates will be able to deliver a clear description of a medical science project.
3. Graduates will be able to critically evaluate data in the medical sciences.
4. Graduates will be able to apply clinical knowledge to interpret medical science data to develop a differential diagnosis.
5. Graduates will be able to display knowledge of professional and ethical behaviors necessary to work effectively in an interdisciplinary team.

Requirements

Students in Saint Louis University’s medical sciences major take the following courses.

Standard Track

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Pre-Physician Assistant and PA Scholar Track

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Total Credits: 121-122

### Biomedical Laboratory Science

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### Foundation

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PHYS 1330  & PHYS 1340  
PHYS 1330 College Physics II and College Physics II Laboratory 4
PHYS 1340

PPHS 1050  
PPHS 1050 Medical Scholar 0

PSY 1010  
PSY 1010 General Psychology (satisfies CORE 3600) 3

SOC 1100  
SOC 1100 Introduction to Sociology 3

BIOL XXXX  
BIOL XXXX Upper Division Biology Electives 3

XXXX  
XXXX Core Elective 3

**Biomedical Laboratory Science**

BLS 1100  
BLS 1100 Foundations of Investigative and Medical Sciences 2

BLS 3110  
BLS 3110 Urinalysis & Body Fluids 2

BLS 4110  
BLS 4110 Medical Biochemistry I 3

BLS 4120  
BLS 4120 Medical Biochemistry II 2

BLS 4210  
BLS 4210 Hematology 4

BLS 4220  
BLS 4220 Hemostasis and Thrombosis 2

BLS 4310  
BLS 4310 Immunohematology 3

BLS 4411  
BLS 4411 Fundamentals of Immunology 2

BLS 4510  
BLS 4510 Medical Microbiology 4

BLS 4610  
BLS 4610 Research Design, Critique & Presentation (satisfies CORE 4000) 3

**General Electives** 6

Total Credits 122-123

### Continuation Standards

Students must maintain a minimum 2.50 grade point average (GPA).

### 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

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>! BIOL 1240 &amp; BIOL 1245</td>
<td>General Biology: Information Flow and Evolution and Principles of Biology I Laboratory (satisfies CORE 3800)</td>
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<td>BLS 1100</td>
<td>Foundations of Investigative and Medical Sciences</td>
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<tr>
<td>! CHEM 1110 &amp; CHEM 1115</td>
<td>General Chemistry I and General Chemistry I Laboratory</td>
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### Spring

| ! BIOL 1260 & BIOL 1265 | General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory | 4 |
| ! CHEM 1120 & CHEM 1125 | General Chemistry 2 and General Chemistry 2 Laboratory | 4 |

### Year Two

| **Fall**                             |                                                   |         |
| ! BIOL 3020                          | Biochemistry and Molecular Biology                | 3       |
| ! CHEM 2410 & CHEM 2415              | Organic Chemistry 1 and Organic Chemistry 1 Laboratory | 4       |
| HCE 1600                             | Embodiment, Life, and Death in Context (satisfies CORE 1600) | 3       |
| HSCI 2200                            | Medical Terminology                               | 3       |

### Year Three

| **Fall**                             |                                                   |         |
| BLS 4110                              | Medical Biochemistry I                            | 3       |
| BLS 4411                              | Fundamentals of Immunology                        | 2       |
| HSCI 3300 & HSCI 3310                 | Anatomy & Physiology I and Anatomy & Physiology I Lab | 4       |
| XXXX                                  | Elective                                          | 3       |
| XXXX                                  | Elective                                          | 3       |
| **Credits**                           |                                                   | 15      |

### Spring

| BLS 4120                              | Medical Biochemistry II                           | 2       |
| BLS 4610                              | Research Design, Critique & Presentation          | 2       |
| CORE 3500                             | Cura Personalis 3: Self in the World              | 1       |
| HSCI 3400 & HSCI 3410                 | Anatomy & Physiology Lecture II and Anatomy & Physiology II Lab | 4 |
| XXXX                                  | Elective                                          | 3       |
| XXXX                                  | Elective                                          | 3       |
| **Credits**                           |                                                   | 16      |

### Year Four

| **Fall**                             |                                                   |         |
| BLS 4210                              | Hematology                                        | 4       |
| BLS 4510                              | Medical Microbiology                              | 4       |
| MLS 4515                              | Medical Microbiology Laboratory (Optional)        | 4       |

### Credits

**Total Credits** 122-123
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**Credits**  14

### Spring

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<td>Urinalysis &amp; Body Fluids</td>
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<td>BLS 4220</td>
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<tr>
<td>CORE 2800</td>
<td>Eloquientia Perfecta 3: Creative Expression</td>
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**Credits**  15-16

### Year Three

### Fall

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<tr>
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<td>Anatomy &amp; Physiology I</td>
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<td>&amp; HSCI 3310</td>
<td>and Anatomy &amp; Physiology I Lab</td>
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<tr>
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**Credits**  16

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**Credits**  16

### Year Four

### Fall

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### Spring

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<td>Eloquientia Perfecta 3: Creative Expression</td>
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**Credits**  12-13

**Total Credits**  121-122

### Program Notes

The Pre-PA curriculum is based on the SLU PA program requirements and is not guaranteed to meet all the prerequisites of all PA programs. Prospective PA students need to identify the programs to which they...
intend to apply and ascertain what courses are needed to fulfill the application requirements for those schools.

### Medical Scholars Track

<table>
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<td>CORE 1000 Ignite First Year Seminar</td>
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<td>CORE 1500 Cura Personalis 1: Self in Community</td>
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<td>ENGL 1900 Advanced Strategies of Rhetoric and Research (satisfies CORE 1900)</td>
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<td>STAT 1300 Elementary Statistics with Computers (satisfies CORE 3200)</td>
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### Program Notes
The Med Scholars curriculum is designed to address SLU’s School of Medicine requirements and is subject to change. If applying to a medical school at another institution, please consult their website for specific requirements.

### Pre-Medicine Track

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**Program Notes**
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**Contact Us**
Apply for Admission ([https://www.slu.edu/admission/](https://www.slu.edu/admission/))

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