PUBLIC HEALTH, B.S.

A public health major is a perfect fit for students who are service-oriented and like to ask the bigger questions about health, understand why health differs across populations, and address health disparities and social justice on a community level in diverse local, national and global settings. As a service-oriented field, public health is a natural fit with the Jesuit mission.

Public health professionals address challenging health-related issues in today’s world, such as: How can social media be used to track disease outbreaks? How do we address the growing burden of cancer in low/middle-income countries? How do we ensure safe drinking water in communities across the globe?

Saint Louis University’s B.S. in public health was recently ranked No. 1 in Missouri and No. 27 in the nation by College Factual. (https://www.collegefactual.com/colleges/saint-louis-university-main-campus/academic-life/academic-majors/health-care-professions/public-health/#:~:text=SLU%20Public%20Health%20Rankings,also%20ranked%20%231%20in%20Missouri) The program is offered through the College for Public Health and Social Justice and is accredited by the Council on Education for Public Health.

Additional program highlights include:

• **Immediate impact.** Public health students at Saint Louis University can make an immediate impact on community health with a curriculum that emphasizes hands-on service learning and social justice.

• **Evidenced-based.** As public health majors, SLU students consider evidence-based approaches to addressing health issues and examine the roles of individual behavior, environment, biology, social structures, and policy in determining health outcomes.

• **Diverse opportunities.** SLU’s public health major opens the door to multiple career opportunities in diverse settings, including community organizations, hospitals, pharmaceutical companies, government agencies and non-profit organizations.

• **Employment outlook.** Public health has a faster-than-average job growth in a diverse workplace.

• **Pre-medical studies.** Pre-med students who major in public health at SLU gain a stronger understanding of how social, community, organizational, environmental, and policy factors affect the health of their future patients.

Additional degree options for students majoring in public health at SLU include:

• SLU’s accelerated program in which high-achieving students earn a B.S. in Public Health in four years and a Master of Public Health (M.P.H.) with one additional year of study; students apply to this competitive program during their fifth semester of study

• A pre-med track (p. 3) for students interested in going to medical school

• A medical scholars track (p. 3) for students in the Medical Scholars Program (https://www.slu.edu/scholars/medical-scholars/)

• Honors courses for students in SLU’s Honors Program (https://www.slu.edu/honors/)

Curriculum Overview

SLU’s Bachelor of Science in Public Health curriculum contains 36 credits of major courses that include contemporary challenges in health care, global health, evidence-based practice, epidemiology, biostatistics, advocacy/policy, and the biological basis of public health. Students also take six credits of public health electives, drawn from courses offered across disciplines. In the senior capstone course, students complete a culminating project and portfolio to demonstrate their achievement of program learning outcomes.

A core curriculum of humanities, science, math, foreign language, fine arts, and social science courses, along with general electives fills out the remainder of the 120 credits required for graduation. Many students use their elective courses to pursue secondary majors or minors.


Fieldwork and Research Opportunities

Service-learning is an integral part of SLU’s public health curriculum. Students can embody Saint Louis University’s Jesuit mission by using the knowledge they gain in the classroom to serve others and bring that service back to the classroom. Service-learning provides valuable field experience and helps public health students connect with the St. Louis community. Students complete a minimum of 45 hours of service learning across three courses in the major.

Students can volunteer with health care providers and agencies that serve underserved communities, assist faculty with research projects, and apply to national internships and summer programs in public health. Students are encouraged to participate in internships and summer research opportunities to further enhance their learning experiences at Saint Louis University. Internships can be completed on a volunteer basis or for general elective academic credit. Public health students have interned at the Centers for Disease Control and Prevention, Procter and Gamble, Barnes Jewish Hospital, SSM Health—St. Louis, the Regional Health Commission, departments of health, and more.

Students can also become members of various student organizations focused on public health issues to get to know other students and engage in additional service, networking, and leadership opportunities.

Careers

A B.S. in public health prepares students for entry-level careers in a variety of settings, including departments of health, government agencies, nonprofit and community health organizations, hospitals, academic centers, advocacy organizations, the pharmaceutical industry, and consulting agencies. It is also excellent preparation for graduate school.

Examples of career options in public health include:

• Working with a community organization or health department to implement and evaluate community health interventions about issues such as cardiovascular disease, diabetes, or cancer

• Conducting surveillance of chronic and infectious diseases for local, regional, or state health departments

• Analyzing and developing health policy for a governmental agency

• Conducting public health research in an academic setting

• Monitoring clinical trials in the pharmaceutical industry
• Analyzing health outcomes for insurance companies
• Collaborating with school districts to bring opportunities for physical activity into elementary and high schools
• Designing public health media campaigns, such as those to encourage wearing a seat belt or discourage tobacco use
• Researching the effect of air pollution on a population’s health and advocating for policy change
• Implementing programs aimed at violence prevention or women’s empowerment
• Studying the barriers to healthy eating at both the personal and societal levels
• Working for a nongovernmental organization that designs clean water and sanitation systems in developing countries

Students also have the option to complete fellowships, programs, or a year of service following graduation. Graduates have completed fellowships with the Peace Corps, the United Nations, Fulbright, the World Health Organization, and the Jesuit Volunteer Corps.

Admission Requirements

Begin Your Application (http://www.slu.edu/apply.php)
Saint Louis University also accepts the Common Application.

Freshman
All applications are thoroughly reviewed with the highest degree of individual care and consideration to all credentials that are submitted. Solid academic performance in college preparatory coursework is a primary concern in reviewing a freshman applicant’s file.

To be considered for admission to any Saint Louis University undergraduate program, applicants must be graduating from an accredited high school, have an acceptable HiSET exam score or take the General Education Development (GED) test.

Transfer
Applicants must be a graduate of an accredited high school or have an acceptable score on the GED.

Students who have attempted fewer than 24 semester credits (or 30 quarter credits) of college credit must follow the above freshmen admission requirements. Students who have completed 24 or more semester credits (or 30 quarter credits) of college credit must submit transcripts from all previously attended college(s).

In reviewing a transfer applicant’s file, the Office of Admission holistically examines the student’s academic performance in college-level coursework as an indicator of the student’s ability to meet the academic rigors of Saint Louis University. Where applicable, transfer students will be evaluated on any courses outlined in the continuation standards of their preferred major.

International Applicants
All admission policies and requirements for domestic students apply to international students along with the following:

• Demonstrate English Language Proficiency
• Proof of financial support must include:
  • A letter of financial support from the person(s) or sponsoring agency funding the time at Saint Louis University

• A letter from the sponsor’s bank verifying that the funds are available and will be so for the duration of study at the University
• Academic records, in English translation, of students who have undertaken postsecondary studies outside the United States must include the courses taken and/or lectures attended, practical laboratory work, the maximum and minimum grades attainable, the grades earned or the results of all end-of-term examinations, and any honors or degrees received. WES and ECE transcripts are accepted.

Scholarships and Financial Aid
There are two principal ways to help finance a Saint Louis University education:

• Scholarships: Scholarships are awarded based on academic achievement, service, leadership and financial need.
• Financial Aid: Financial aid is provided in the form of grants and loans, some of which require repayment.

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

For information on other scholarships and financial aid, visit the student financial services office online at https://www.slu.edu/financial-aid/.

Accreditation
The College for Public Health and Social Justice is fully accredited by the Council on Education for Public Health (CEPH).

View the Most Recent CEPH Self-Study (July 2016) (http://www.slu.edu/public-health-social-justice/pdfs/cphsj_self_study_august_2015_report.pdf)

Learning Outcomes
1. Graduates will be able to demonstrate foundational knowledge of public health in relation to human cultures, history, science, and policy.
2. Graduates will be able to identify health characteristics, determinants, and needs across diverse populations.
3. Graduates will be able to recognize ways to implement evidence-based approaches to public health issues in communities.
4. Graduates will be able to communicate public health issues with an emphasis on social justice and the core disciplines of public health.

Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required Core Courses</td>
<td></td>
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<tr>
<td>BIOL 1240</td>
<td>General Biology: Information Flow and Evolution</td>
<td>4</td>
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<tr>
<td>&amp; BIOL 1245 &amp; Principles of Biology I Laboratory</td>
<td></td>
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<tr>
<td>BIOL 1260</td>
<td>General Biology: Transformations of Energy and Matter</td>
<td>4</td>
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<tr>
<td>&amp; BIOL 1265 &amp; Principles of Biology II Laboratory</td>
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<tr>
<td>ENGL 1900</td>
<td>Advanced Strategies of Rhetoric and Research</td>
<td>3</td>
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<tr>
<td>HIST 1110</td>
<td>Origins of the Modern World to 1500</td>
<td>3</td>
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<tr>
<td>HIST 1120</td>
<td>Origins of the Modern World (1500 to Present)</td>
<td>3</td>
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<tr>
<td>MATH 1400</td>
<td>Pre-Calculus</td>
<td>3</td>
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<tr>
<td>PHIL 1050</td>
<td>Introduction to Philosophy: Self and Reality</td>
<td>3</td>
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General Track

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td><strong>Fall</strong></td>
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<tr>
<td><strong>Year One</strong></td>
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</tr>
<tr>
<td>BIOL 1240 &amp; BIOL 1245</td>
<td>General Biology: Information Flow and Evolution and Principles of Biology I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1900</td>
<td>Advanced Strategies of Rhetoric and Research</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1110</td>
<td>Origins of the Modern World to 1500</td>
<td>3</td>
</tr>
</tbody>
</table>

| Language Level 1 or higher | 3 |

| General Elective | 3 |

| **Year Two** | | |
| **Fall** | | |
| HMP 1300 | Contemporary Challenges in Health Care | 3 |
| PHIL 2050 | Ethics | 3 |
| PUBH 2300 | Contemporary Issues in Global Health | 3 |
| THEO 1000 | Theological Foundations | 3 |

| General Elective | 3 |

| **Year Three** | | |
| **Fall** | | |
| BST 3100 | Applied Biostatistics I | 3 |
| Public Health Elective | 3 |
| THEO 2000+ Elective | 3 |

| General Elective | 3 |

| General Elective | 1 |

| **Spring** | | |
| HCE 3100 | Public Health & Social Justice | 3 |
| HIST 1120 | Origins of the Modern World (1500 to Present) | 3 |
| ENGL 2000+ Literature Elective | 3 |
| Fine Arts Elective | 3 |

| General Elective | 3 |

Continuation Standards

- Cumulative G.P.A. of at least 2.00
- Minimum grade of "C" in all B.S. in Public Health major courses
- Minimum grade of "C-" in all core courses
- Minimum grade of "D" in all remaining general elective courses counting toward the minimum 120 credits required for graduation
- Students who wish to apply for the accelerated B.S./M.P.H. program must meet additional requirements as outlined in the CPHSJ Undergraduate Public Health Student Handbook

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.
Year Four

Fall
EPI 4000  Intro Epidemiology: Foundations & Practice  3
PUBH 4000  Politics and Public Health Advocacy  3
Social Science Elective  3
General Elective  3
General Elective  3

Credits  15

Spring
PUBH 4960  Capstone in Public Health  3
Public Health Elective §  3
General Elective  3
General Elective  3
General Elective  3

Credits  15

Total Credits  120

‡ Fulfills the cultural diversity core requirement.
§ See information in Program Notes

Pre-Med and Medical Scholars Track

Course  Title  Credits

Year One
Fall
BIOL 1240  General Biology: Information Flow and Evolution  4
& BIOL 1245 and Principles of Biology I Laboratory
CHEM 1110  General Chemistry 1  4
& CHEM 1115
ENGL 1900  Advanced Strategies of Rhetoric and Research  3
MATH 1510  Calculus I  4

Credits  15

Spring
BIOL 1260  General Biology: Transformations of Energy and Matter  4
& BIOL 1265
and Principles of Biology II Laboratory
CHEM 1120  General Chemistry 2  4
& CHEM 1125
PSY 1010  General Psychology  3
PUBH 2100  Introduction to Global Health ‡  3

Credits  14

Year Two
Fall
BIOL 3020  Biochemistry and Molecular Biology  3
CHEM 2410  Organic Chemistry 1  4
& CHEM 2415
PUBH 2300  Contemporary Issues in Global Health  3
THEO 1000  Theological Foundations  3

(Pre-Med and Medical Scholars Track)
Language Level 1 or higher  3
(Medical Scholars Only: PPHS 1050)  0

Credits  16

Spring
Biol 3040  Cell Structure & Function  3
CHEM 2420  Organic Chemistry 2  4
& CHEM 2425
HMP 1300  Contemporary Challenges in Health Care  3
PHIL 1050  Introduction to Philosophy: Self and Reality  3
Language Level 2 or higher  3

Credits  16

Year Three
Fall
BST 3100  Applied Biostatistics I  3
HCE 3100  Public Health & Social Justice  3
HIST 1110  Origins of the Modern World to 1500  3
PHYS 1310  College Physics I  4
& PHYS 1320
SOC 1100  Introduction to Sociology  3

Credits  16

Spring
HIST 1120  Origins of the Modern World (1500 to Present)  3
PHIL 2050  Ethics  3
PHYS 1330  College Physics II  4
& PHYS 1340
PUBH 3200  Evidence Based Public Health  3
PUBH 4100  Biological Basis of Public Health  3

Credits  16

Year Four
Fall
EPI 4000  Intro Epidemiology: Foundations & Practice  3
PUBH 4000  Politics and Public Health Advocacy  3
ENGL 2000+ Literature Elective  3
Public Health Elective §  3
General Elective (Medical Scholars take BIOL 3000+) *  3

Credits  15

Spring
PUBH 4960  Capstone in Public Health  3
Fine Arts Elective  3
Public Health Elective §  3
THEO 2000+ Elective  3
(Medical Scholars Only: BIOL 3000+) *  0-3

Credits  12-15

Total Credits  120-123

‡ Fulfills the cultural diversity core requirement.
§ See information in Program Notes.
Students in the Medical Scholars Program take an upper level biology course in each semester senior year. Pre-Med students who are not Med Scholars may take a different class in the place of this requirement, or no course, if they anticipate they will earn 120 credits before degree conferral.

Pre-medical students must consult with their academic advisor, and with SLU’s Office of Pre-Health and Pre-Law Studies (https://www.slu.edu/academics/undergraduate/pre-health-pre-law/) to ensure the proper pre-medical course registrations.

**Program Notes**
Minimum of 120 credits including requirements listed above and cumulative G.P.A. of at least 2.50 to graduate and/or remain in good standing with the program.

**Approved English Literature Courses**

See Arts and Sciences core BS requirements for a full listing.

**Approved Fine Arts Courses**
See Arts and Sciences core BS requirements for a full listing.

**Approved Public Health Electives**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ASTD 3200</td>
<td>The Urban Crisis</td>
<td>3</td>
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<tr>
<td>BIOL 4190</td>
<td>GIS in Biology</td>
<td>3</td>
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<tr>
<td>BST 3000</td>
<td>Intro to Statistical Computing</td>
<td>3</td>
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<tr>
<td>CCJ 2250</td>
<td>Institutional &amp; Community Corrections</td>
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<tr>
<td>CCJ 3150</td>
<td>Contemporary Theories of Crime</td>
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<tr>
<td>CCJ 3400</td>
<td>Victimology &amp; Victimization</td>
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<tr>
<td>CCJ 3500</td>
<td>Race, Ethnicity, and the Criminal Justice System</td>
<td>3</td>
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<tr>
<td>CCJ 3600</td>
<td>Mental Health &amp; Crime</td>
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<tr>
<td>GIS 4010</td>
<td>Introduction to Geographic Information Systems</td>
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<tr>
<td>MUSC 2300</td>
<td>Intro to Music Therapy</td>
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<tr>
<td>PUBH 2700</td>
<td>Public Health Issues in Emergency Management</td>
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<tr>
<td>PUBH 3930</td>
<td>Special Topics</td>
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<tr>
<td>PUBH 4930</td>
<td>Special Topics</td>
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<tr>
<td>POLS 3800/</td>
<td>The Structure of Poverty: Globally and Locally</td>
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<tr>
<td>WGST 3510/SOC 3510</td>
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<tr>
<td>SWRK 2300</td>
<td>Human Behavior Social Envrnmnt</td>
<td>3</td>
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<tr>
<td>SWRK 5703</td>
<td>International Social Work (undergraduate section)</td>
<td>3</td>
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**Approved Social Sciences**
Any courses from anthropology, criminal justice, economics, forensic science, political science, psychology and sociology.

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<td>3</td>
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<tr>
<td>CMM 1000</td>
<td>Human Communication and Culture</td>
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<td>CMM 2000</td>
<td>Communication Theory</td>
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<tr>
<td>CMM 2800</td>
<td>Communication Research</td>
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