BIOSTATISTICS, B.S. TO HEALTH DATA SCIENCE, M.S. ACCELERATED PROGRAM

Saint Louis University's accelerated B.S. in Biostatistics/M.S. in Health Data Science is designed for students who demonstrate academic success in the biostatistics major and related coursework. The B.S. in Biostatistics is offered through the College for Public Health and Social Justice (https://www.slu.edu/public-health-social-justice/), accredited by the Council on Education for Public Health. The degree uses the American Statistical Association’s guidelines for undergraduate data health sciences.

SLU’s accelerated program enables biostatistics majors to obtain their undergraduate and master's degrees in five years. They then enter the workforce up to a year earlier than with a traditional two-year master’s program. Students apply to the accelerated program during their fifth semester of collegiate study, and accepted students begin graduate coursework during their senior year. Students retain undergraduate status, financial aid and tuition rates until their undergraduate degree is conferred after year four. At that time, students attain official graduate student status, pay graduate tuition and become eligible for graduate assistantships.

For additional information, see the catalog entries for the following SLU programs:


Health Data Science, M.S. (https://catalog.slu.edu/colleges-schools/medicine/health-outcomes-research/health-data-science-ms/)

Requirements

Admission Requirements

SLU students in the biostatistics major who meet the eligibility requirements may apply in the fall semester of their junior year.

Eligibility requirements include:

- Students must be in their fifth semester of collegiate study.
- Students must have a minimum cumulative GPA of 3.00, and a mathematics/statistics GPA of 3.40.
- Students must demonstrate a plan to complete 90 of the 120 credits required for their biostatistics major by the beginning of their fourth year of studies.
- Students must be eligible to complete the accelerated curriculum with no more than 15 credits during each semester during year four of the program.
- Students must be in good academic and disciplinary standing with Saint Louis University and the College for Public Health and Social Justice.
- Students must demonstrate the potential for leadership in biostatistics. This can be done through engagement in volunteer activities or work experience. Students must fulfill two of the following criteria:
  - A minimum cumulative GPA of 3.40 in mathematics and statistics.
  - A minimum cumulative GPA of 3.00, with a MATH and BST GPA of 3.40 in order to participate in the graduate program.
  - Minimum grade of B- in all graduate-level courses.
  - Minimum grade of C- in all core courses.
  - Minimum grade of D in all remaining general elective courses.
  - Completion of 90 of the 120 credits required for graduation.


Program Requirements

Students in the Accelerated Program are allowed to double count 15 credits of coursework towards both the undergraduate and graduate degrees.

Continuation Standards

- Cumulative GPA of at least 2.00
- Cumulative GPA of at least 3.00, with a MATH and BST GPA of 3.40 in order to participate in the graduate program
- Minimum grade of B- in all graduate-level courses
- Minimum grade of C- in all core courses
- Minimum grade of D in all remaining general elective courses
- Cumulative GPA of at least 3.00, with a MATH and BST GPA of 3.40
- Minimum grade of C- in all core courses
- Minimum grade of D in all remaining general elective courses

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Year One</td>
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<tr>
<td>Fall</td>
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<tr>
<td>CORE 1000</td>
<td>Cura Personalis 1: Self in Community</td>
<td>2-3</td>
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<td>CORE 1500</td>
<td>Ignite First Year Seminar</td>
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<td>CORE 1900</td>
<td>Eloquenta Perfecta 1: Written and Visual Communication</td>
<td>3</td>
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<tr>
<td>PUBH 2100</td>
<td>Introduction to Global Health</td>
<td>3</td>
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<tr>
<td>MATH 1510</td>
<td>Calculus I (Quantitative Reasoning)</td>
<td>4</td>
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<td>General Elective</td>
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<td>16-17</td>
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<tr>
<td>Spring</td>
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<tr>
<td>MATH 1520</td>
<td>Calculus II</td>
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<td>CORE 1600</td>
<td>Ultimate Questions: Theology</td>
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<td>BST 3000</td>
<td>Intro to Statistical Computing</td>
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<td>General Elective</td>
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<tr>
<td>BST 3100</td>
<td>Applied Biostatistics I</td>
<td>3</td>
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<tr>
<td>CORE 1200</td>
<td>Eloquenta Perfecta 2: Oral and Visual Communication</td>
<td>3</td>
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<tr>
<td>CORE 1700</td>
<td>Ultimate Questions: Philosophy</td>
<td>3</td>
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MATH 2530  Calculus III  4
General Elective: Dignity, Ethics & a Just Society Attribute  3

| Credits | 16 |

Spring
BST 3200  Applied Biostatistics II  3
CORE 2500  Cura Personalis 2: Self in Contemplation  0
EPI 4000  Intro Epidemiology: Foundations & Practice  3
General Elective  3
General Elective: Identities in Context Attribute  3
General Elective: Global Interdependence  3

| Credits | 15 |

Year Three
Fall
BST 4100  Theory of Biostatistics I  3
CORE 2800  Eloquencia Perfecta 3: Creative Expression  2-3
CORE 3400  Ways of Thinking: Aesthetics, History, and Culture  3
PUBH 3200  Evidence Based Public Health  3
PUBH 4100  Biological Basis of Public Health (Natural & Applied Sciences)  3

| Credits | 14-15 |

Spring
Department reviews applications, conducts interviews, and qualified students are notified of acceptance.
BST 4200  Theory of Biostatistics II  3
CORE 3600  Ways of Thinking: Social and Behavioral Sciences  3
CORE 4000  Collaborative Inquiry  2-3
General Elective: Writing Intensive  3
General Elective: Reflection in Action Attribute  3

| Credits | 14-15 |

Year Four
Fall
Formal participation in the Accelerated Program begins. Students maintain undergrad status and take a maximum of 15 credits.
BST 4400  Introduction to Applied Data Management  3
CORE 3500  Cura Personalis 3: Self in the World  1
General Electives  6
General Electives: Accelerated Students substitute Graduate Level Courses  6

| Credits | 16 |

Spring
Students take a maximum of 15 credits. B.S. degree is conferred in May.
General Electives: Accelerated Students substitute Graduate Level Courses  9
General Electives  6

| Credits | 15 |

Year Five
Fall
M.S. Courses  9

| Credits | 9 |

Spring
M.S. Courses  6

| Credits | 6 |

Total Credits  137-140

Contact Us
Apply for Admission (http://www.slu.edu/admission/)
For additional questions about undergraduate admission, please contact:
Katie Linnenbrink
Administrative assistant
Tegeler Hall 300 West
314-977-3934
katie.linnenbrink@slu.edu

Accelerated students double count up to 15 credits of coursework between the undergraduate program and the graduate program.

Refer to the B.S. in Biostatistics roadmap (https://catalog.slu.edu/colleges-schools/public-health-social-justice/undergraduate-programs/biostatistics-bs/#roadmaptext) for a list of approved English, fine arts and social science classes.