

# 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, allowing them to 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:

Biostatistics, B.S. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/undergraduate-programs/biostatistics-bs/>)

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

## Accreditation

Saint Louis University's College for Public Health and Social Justice is fully accredited by the Council on Education for Public Health (CEPH). To see our most recent accreditation documentation, please visit the College for Public Health and Social Justice website (<https://www.slu.edu/public-health-social-justice/about/accreditation.php>). (<https://www.slu.edu/public-health-social-justice/about/accreditation.php>)

## Requirements

### Admission Requirements

SLU students who are biostatistics majors and 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 may use no more than six credits from another institution towards their major coursework.

The CPHSJ Undergraduate Public Health Student Handbook (<https://www.slu.edu/public-health-social-justice/pdfs/cphsj-student-handbook-ug.pdf>) outlines application procedures and program details.

## 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 B.S. in Biostatistics 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

## 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.

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
CORE 1000	Ignite First Year Seminar	2-3
CORE 1500	Cura Personalis 1: Self in Community	1
CORE 1900	Eloquentia Perfecta 1: Written and Visual Communication	3
MATH 1510	Calculus I (CORE: Ways of Thinking: Quantitative Reasoning)	4
PUBH 2100	Introduction to Global Health	3
General Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Spring</b>		
MATH 1520	Calculus II	4
BST 3000	Intro to Statistical Computing	3
CORE 1600	Ultimate Questions: Theology	3
General Elective		3

General Elective	3
<b>Credits</b>	<b>16</b>

**Year Two**

**Fall**

BST 3100	Applied Biostatistics I	3
CORE 1200	Eloquentia Perfecta 2: Oral and Visual Communication	3
CORE 1700	Ultimate Questions: Philosophy	3
MATH 2530	Calculus III	4
CORE: Dignity, Ethics & a Just Society		3

<b>Credits</b>	<b>16</b>
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**Spring**

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

<b>Credits</b>	<b>15</b>
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**Year Three**

**Fall**

! Eligible students formally apply to the Accelerated Program.

BST 4100	Theory of Biostatistics I	3
CORE 2800	Eloquentia 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 (CORE: Ways of Thinking: Natural & Applied Sciences)	3

<b>Credits</b>	<b>14-15</b>
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**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	3
CORE: Writing Intensive		3
CORE: Reflection in Action		3

<b>Credits</b>	<b>15</b>
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**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

<b>Credits</b>	<b>16</b>
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**Spring**

Students take a maximum of 15 credits. B.S. degree is conferred in May.

General Electives: Accelerated Students substitute Graduate Level Courses	9
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General Electives	6
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<b>Credits</b>	<b>15</b>
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**Year Five**

**Fall**

M.S. Courses	9
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<b>Credits</b>	<b>9</b>
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**Spring**

M.S. Courses	6
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<b>Credits</b>	<b>6</b>
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<b>Total Credits</b>	<b>138-140</b>
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Code	Title	Credits
<b>Graduate Level Courses</b>		<b>30</b>

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

## Contact Us

Apply for Admission (<https://www.slu.edu/admission/>)

For additional questions about undergraduate admission, please contact:  
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 Administrative assistant  
 Wool Center, Suite 206  
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 cphsj\_ug@slu.edu