

# BIostatISTICS, B.S. TO BIostatISTICS AND HEALTH ANALYTICS, M.S. ACCELERATED PROGRAM

Saint Louis University's accelerated B.S. in Biostatistics/M.S. in Biostatistics and Health Analytics is designed for students who demonstrate academic success in the Biostatistics major and related coursework.

This 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 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.

The B.S. in Biostatistics is offered through SLU's College for Public Health and Social Justice (<https://www.slu.edu/public-health-social-justice/>), which is accredited by the Council on Education for Public Health. The degree uses the American Statistical Association's guidelines for undergraduate data health sciences

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

Biostatistics, B.S.

Biostatistics and Health Analytics, M.S.

## Admission

SLU students in the biostatistics major who meet the eligibility requirements may apply to this program 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.
- 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 complete all BST and MATH courses at the 3000-level and below required for the BS in Biostatistics.

Application procedures and program details are outlined in the CPHSJ Undergraduate Public Health Student Handbook (<https://>

[sites.google.com/a/slu.edu/my-cphsj/home/undergraduate/undergraduate-public-health-programs/ugph-student-handbook/](https://sites.google.com/a/slu.edu/my-cphsj/home/undergraduate/undergraduate-public-health-programs/ugph-student-handbook/)).

## Requirements

The accelerated B.S./M.S. program allows students to use up to 15 graduate credits towards their undergraduate degree.

Code	Title	Credits
University Undergraduate Core		<b>32-35</b>
<b>Prerequisites for Major Courses</b>		
MATH 1510	Calculus I	4
MATH 1520	Calculus II	4
MATH 2530	Calculus III	4
<b>Required Biostatistics Major Courses</b>		
BST 3000	Intro to Statistical Computing	3
BST 3100	Applied Biostatistics I	3
BST 3200	Applied Biostatistics II	3
BST 4100	Theory of Biostatistics I	3
BST 4200	Theory of Biostatistics II	3
BST 4400	Introduction to Applied Data Management	3
EPI 4000	Intro Epidemiology: Foundations & Practice	3
PUBH 2100	Introduction to Global Health <sup>†</sup>	3
PUBH 3200	Evidence Based Public Health	3
PUBH 4100	Biological Basis of Public Health	3
<b>General Elective Courses</b>		
Select an additional 43-46 credits of general electives to achieve the 43-46 minimum 120 credits for graduation.		
<b>Total Credits</b>		<b>120</b>

## Graduate Level Courses

Graduate requirements may change when the student is formally accepted into the program in junior year. Students may choose between two concentrations:

1. Traditional Biostatistics Concentration or
2. Geospatial Health Data Analytics Concentration

Code	Title	Credits
<b>Graduate Level Courses</b>		<b>36</b>
• Up to 15 undergraduate credits double-count toward the graduate credits to complete the degree.		

## Continuation Standards

- Cumulative GPA of at least 3.00 each semester
- 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	4
PUBH 2100	Introduction to Global Health	3
General Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Spring</b>		
BST 3000	Intro to Statistical Computing	3
MATH 1520	Calculus II	4
CORE 1600	Ultimate Questions: Theology	3
General Elective		3
General Elective		3
<b>Credits</b>		<b>16</b>
<b>Year Two</b>		
<b>Fall</b>		
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
General Elective: Dignity, Ethics & a Just Society Attribute		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
BST 3200	Applied Biostatistics II	3
CORE 2500	Cura Personalis 2: Self in Contemplation	0
General Elective		3
General Elective		3
General Elective: Global Interdependence		3
General Elective: Identities in Context Attribute		3
<b>Credits</b>		<b>15</b>
<b>Year Three</b>		
<b>Fall</b>		
! Eligible students formally apply to the Accelerated Program.		
CORE 2800	Eloquentia Perfecta 3: Creative Expression	2-3
General Elective		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	3

General Elective		3
<b>Credits</b>		<b>17-18</b>
<b>Spring</b>		
Department reviews applications, conducts interviews, and qualified students are notified of acceptance.		
CORE 3600	Ways of Thinking: Social and Behavioral Sciences	3
CORE 4000	Collaborative Inquiry	2-3
General Elective		3
General Elective: Writing Intensive		3
General Electives: Reflection in Action Attribute		3
<b>Credits</b>		<b>14-15</b>
<b>Year Four</b>		
<b>Fall</b>		
BST 4100	Theory of Biostatistics I (Accelerated Students will substitute BST 5020)	3
BST 4400	Introduction to Applied Data Management	3
EPI 4000	Intro Epidemiology: Foundations & Practice (Accelerated Students will substitute PUBH 5030)	3
General Elective: Accelerated students will substitute a graduate level course dependent on concentration.		3
General Elective (If needed to reach 120 credits by degree conferral)		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
BST 4200	Theory of Biostatistics II (Accelerated Students will substitute BST 5025)	3
CORE 3500	Cura Personalis 3: Self in the World	1
General Elective		3
General Elective - For Accelerated Students, a Graduate Level class substitutes in place of this General Elective.		3
General Elective - For Accelerated Students, a Graduate Level class substitutes in place of this General Elective.		3
<b>Credits</b>		<b>13</b>
<b>Year Five</b>		
<b>Fall</b>		
Graduate Level Course		3
Graduate Level Course		3
Graduate Level Course		3
<b>Credits</b>		<b>9</b>
<b>Spring</b>		
Graduate Level Course		3
Graduate Level Course		3
Graduate Level Course		3
<b>Credits</b>		<b>9</b>
<b>Total Credits</b>		<b>140-143</b>
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Graduate Level Courses</b>		<b>36</b>
*Up to 12 credits will double count between the 120 credits required for the undergraduate degree and the 36 credits required for the graduate degree.		

Students Accepted to the Accelerated Program choose one of two concentrations:

1. Traditional Biostatistics & Health Analytics Concentration
2. Geospatial Health Data Analytics Concentration

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Fulfills the cultural diversity core requirement.

## Contact Us

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

For additional questions about undergraduate admission please contact:

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