

# MATHEMATICS, B.A. TO MATHEMATICS, M.A. ACCELERATED PROGRAM

The B.A. to M.A. accelerated program in mathematics at Saint Louis University offers outstanding math studies majors the opportunity to begin an M.A. program in their senior year.

Students complete the M.A. with a full-time fifth year of graduate study at SLU after their successful completion of both the first-year requirements and their undergraduate degree and major.

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

Mathematics, B.A. (<https://catalog.slu.edu/colleges-schools/arts-sciences/mathematics-statistics/mathematics-ba/>)

Mathematics, M.A. (<https://catalog.slu.edu/colleges-schools/arts-sciences/mathematics-statistics/mathematics-ma/>)

## Requirements

### Admission Requirements

Students wishing to apply to this ABM program should have completed the following at the time of application.

- Have completed all 2000-level coursework required in mathematics for the BA in mathematics
- Have completed at least 75 credit hours of coursework
- Have completed MATH 3120 Introduction to Linear Algebra (3 cr)
- Have a cumulative GPA of 3.0 or higher in their mathematics coursework and their overall SLU transcript
- Have received a B or higher in both MATH 2660 Principles of Mathematics (3 cr) and MATH 3120 Introduction to Linear Algebra (3 cr).

To apply, students must submit a personal statement and arrange for two letters of recommendation from mathematics faculty members.

### Program Requirements

Students in the accelerated program will be permitted to take up to 12 credits at the graduate level that will count for both their B.A. and their M.A. degrees. Courses and requirements are listed below.

Undergraduate Program Requirement	Met by Graduate Course
MATH 4110	MATH 5011
MATH 4210	MATH 5021
MATH 4120	MATH 5012
MATH 4220	MATH 5022

### Roadmap

This roadmap is just one example of a semester-by-semester plan of study for this program. There are other plans students can and do

take. The plan of study for each particular student is established in consultation with each student's academic advisor; *this roadmap does not replace academic advising appointments.*

Roadmap notes:

- This Roadmap assumes full-time enrollment unless otherwise noted.
- Courses/Milestones marked with an "!" are critical and must be completed in the semester listed in the Roadmap to ensure a timely graduation.
- Course availability and sequencing are subject to change.

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
MATH 1510	Calculus I	4
CORE 1500	Cura Personalis 1: Self in Community	1
University Core and/or University Electives		11
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 1520	Calculus II	4
University Core and/or University Electives		9
<b>Credits</b>		<b>13</b>
<b>Year Two</b>		
<b>Fall</b>		
MATH 2530	Calculus III	4
MATH 2660	Principles of Mathematics	3
University Core and/or University Electives		9
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MATH 3120	Introduction to Linear Algebra	3
STAT 3850	Foundation of Statistics	3
University Core and/or University Electives		9
<b>Credits</b>		<b>15</b>
<b>Year Three</b>		
<b>Fall</b>		
Pure Mathematics Elective		3
Mathematics or Statistics Elective		3
University Core and/or University Electives		9
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Pure Mathematics Elective		3
Mathematics or Statistics Elective		3
University Core and/or University Electives		9
<b>Credits</b>		<b>15</b>
<b>Year Four</b>		
<b>Fall</b>		
MATH 5011	Introduction to Abstract Algebra	3
MATH 5021	Introduction to Analysis	3
University Core and/or University Electives		9
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MATH 5012	Linear Algebra	3
MATH 5022	Metric Spaces	3

University Core and/or University Electives	9
<b>Credits</b>	<b>15</b>
<b>Year Five</b>	
<b>Fall</b>	
MATH 5080	Probability Theory 3
MATH 5140	Algebraic Combinatorics 3
MATH 5310	Point Set Topology 3
<b>Credits</b>	<b>9</b>
<b>Spring</b>	
MATH 5110	Algebraic Structures I 3
MATH 5220	Complex Analysis 3
STAT 5085	Mathematical Statistics 3
<b>Credits</b>	<b>9</b>
<b>Total Credits</b>	<b>138</b>

## Contact Us

For additional information about this program, please contact [mathstat@slu.edu](mailto:mathstat@slu.edu) or call 314-977-2444.