

MATHEMATICS MAJOR

The mathematics department offers concentrations in mathematics and mathematics/secondary education; it also offers a major in data science jointly with the computer science department. Information about the data science major is in a separate section for that major. Students may not earn majors in both mathematics and data science. Students may not earn a minor in mathematics with a major in data science.

Acceptance to Major Requirements

Course Requirements:

Code	Title	Hours
MATH 119	Calculus I	4
MATH 120	Calculus II	4
MATH 239	Linear Algebra	4
or MATH 304	Foundations and Structures of Mathematics	

Minimum Grade and/or GPA for required courses: 2.00 GPA

Minimum Cumulative GPA: 2.00

40 credits required

Code	Title	Hours
MATH 119	Calculus I	4
MATH 120	Calculus II	4
MATH 239	Linear Algebra	4
MATH 304	Foundations and Structures of Mathematics	4
MATH 331	Algebraic Structures I	4
MATH 343	Analysis I	4
Select 16 additional upper-division credits in mathematics		16
Total Hours		40

Students anticipating a major in mathematics and/or the natural sciences ordinarily begin their study of mathematics with MATH 119 Calculus I. However, a student needing further preparation before beginning calculus should enroll in MATH 115 Pre-Calculus Mathematics. Students interested in advanced placement should contact the department chair.

Additional Requirements:

General Education Requirements:

All undergraduate students must complete the requirements of the Integrations Curriculum (IC) which is designed to ensure all of our students receive a liberal arts education. Please review details of the Integrations Curriculum (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/integrations-curriculum/>) requirements here (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/integrations-curriculum/>).

Graduation Requirements:

In addition to the Integrations Curriculum, all undergraduate students must meet the following minimum degree requirements to earn their degree from CSB and SJU.

Credits: 124 total credits, 40 of which must be from upper division coursework

GPA: 2.0 or higher*

Residency: At least 24 of your last 32 credits must be completed at CSB/SJU

Please visit Graduation (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/graduation/>) under the Academic Policies and Regulations (<https://catalog.csbsju.edu/catalog/academic-programs-policies-regulations/>) portion of the catalog for additional details regarding degree requirements.

* Cumulative GPA as well as major(s)/minor(s) GPA. Please note some majors/minors may require a higher GPA to earn their degree.

Four Year Plan

Course	Title	Hours
First Year		
Fall		
INTG 105	College Success	1
INTG 100	Foundations	4
LANG 111		4
MATH 119	Calculus I	4
XXXX		4
Hours		17
Spring		
XXXX		4
THEO 100	Theological Explorations	4
LANG 112		4
MATH 120	Calculus II	4
Hours		16
Second Year		
Fall		
XXXX		4
LANG 211		4
MATH 239	Linear Algebra	4
XXXX		4
Hours		16
Spring		
XXXX		4
XXXX		4
MATH 304	Foundations and Structures of Mathematics	4
XXXX		4
Hours		16
Third Year		
Fall		
XXXX		4
XXXX		4
MATH 3XX		4
MATH 3XX		4
Hours		16
Spring		
Study Abroad		4
GL/EX		4
Hours		8
Fourth Year		
Fall		
THEO 3XX		4
MATH 331	Algebraic Structures I	4
MATH 3XX		4
XXXX		4
Hours		16

2 Mathematics Major

Spring		
INTG 300	Learning Integrations	4
MATH 343	Analysis I	4
MATH 3XX		4
XXXX		4
Hours		16
Total Hours		121

XXXX	4
Hours	16
Total Hours	121

Mathematics Major with Honors

Study Abroad could be either semester.

Course	Title	Hours
First Year		
Fall		
INTG 105	College Success	1
INTG 100	Foundations	4
LANG 111		4
MATH 119	Calculus I	4
XXXX		4
Hours		17
Spring		
HONR 120	Community and Identity	4
THEO 100	Theological Explorations	4
LANG 112		4
MATH 120	Calculus II	4
Hours		16
Second Year		
Fall		
HONR 201	Interdisciplinary Approaches to Communities of Scholarship: Human Experience & Social World	4
LANG 211		4
MATH 239	Linear Algebra	4
XXXX		4
Hours		16
Spring		
XXXX		4
HONR 300	Communities and Systems	4
MATH 304	Foundations and Structures of Mathematics	4
XXXX		4
Hours		16
Third Year		
Fall		
XXXX		4
HONR 375		4
MATH 3XX		4
MATH 3XX		4
Hours		16
Spring		
Study Abroad (could be either semester)		4
GL/EX		4
Hours		8
Fourth Year		
Fall		
THEO 3XX		4
MATH 331	Algebraic Structures I	4
MATH 3XX		4
XXXX		4
Hours		16
Spring		
HONR 395	Liberal Arts in Action	4
MATH 343	Analysis I	4
MATH 3XX		4