

MATHEMATICS - EDUCATION TRACK (BS)

This rigorous course of study in mathematics either coupled with a Major in Secondary Education (<https://catalog.luc.edu/undergraduate/education/secondary-education-bsed/>) or followed by a Master's Degree in Education (<https://catalog.luc.edu/undergraduate/education/>) prepares students for a career in teaching secondary school mathematics.

This program has been discontinued. No new admits are being accepted.

Related Programs

Major

- Mathematics (BS) (<https://catalog.luc.edu/undergraduate/arts-sciences/mathematics-statistics/mathematics-bs/>)

Combined

- Mathematics - Education Track/Applied Statistics (BS/MS) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/mathematics-education-track-bs-applied-statistics-ms/>)
- Mathematics - Education Track/Mathematics (BS/MS) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/mathematics-education-track-bs-mathematics-ms/>)

Curriculum

This program requires 47 total credit hours (39 in Math, 8 in Education).

Code	Title	Hours
Education Course Requirements		
TLSC 110	The Profession and Our Program (TLLSC)	1
TLSC 120	Bringing Language, Learning & Development Theory into Practice	2
TLSC 130	Sequence One: 130 Community Immersion	1
TLSC 140	Teaching, Learning and Leading for Social Justice	1
TLSC 150	Constructive Learning Environments For Diverse Students	1
TLSC 160	Analyzing Culturally-Responsive Classroom Instruction	1
TLSC 300A	Professional Learning Communities	0
TLSC 300B	Professional Learning Communities	1
Mathematics Course Requirements		
MATH 161	Calculus I	4
MATH 162	Calculus II	4
MATH 201	Introduction to Discrete Mathematics & Number Theory	3
MATH 212	Linear Algebra	3
MATH 215 or COMP 170	Object-Oriented Programming with Mathematics Introduction to Object-Oriented Programming	3
MATH 263	Multivariable Calculus	4
MATH 301	History of Mathematics	3
MATH 313	Abstract Algebra	3
MATH 318	Combinatorics	3
MATH 344	Geometry	3

MATH 360	Introduction to Game Theory	3
STAT 203 or STAT 335	Introduction to Probability & Statistics Introduction to Biostatistics	3
Total Hours		47

Core Waiver

This degree has a waiver for the Quantitative core.

College of Arts and Sciences Graduation Requirements

All Undergraduate students in the College of Arts and Sciences are required to take two Writing Intensive courses (6 credit hours) as well as complete a foreign language requirement at 102-level or higher (3 credit hours) or a language competency test. More information can be found here (<https://www.luc.edu/cas/college-requirements/>).

Additional Undergraduate Graduation Requirements

All Undergraduate students are required to complete the University Core, at least one Engaged Learning course, and UNIV 101. SCPS students are not required to take UNIV 101. Nursing students in the Accelerated BSN program are not required to take core or UNIV 101. You can find more information in the University Requirements (<https://catalog.luc.edu/undergraduate/university-requirements/>) area.

Learning Outcomes

- Students will have wide knowledge of and strong skills in using the methods and tools that form the foundation of math. These include calculus, linear algebra, and differential equations, as well as statistics and computer sciences.
- Students will acquire analytical and logical skills that form the basis of mathematical thinking and reasoning. These skills will enable problem solving, the abstraction to general principles from specific examples, and the ability to use formal mathematical language. Students will be able to apply these skills in written and verbal communication.
- Students will be exposed to the traditional areas of classical geometry and abstract algebra. They will be able to use the methods and terminology in these fields to understand the role of definitions, axioms and theorems that underlie all mathematical ideas. Students will be exposed to the history of mathematical thought across diverse cultures.
- Students will obtain an advanced perspective on a variety of mathematical topics and see how these can be generalized and employed in real world problems relevant to the high school curriculum.
- Students will acquire basic knowledge of the teaching and education profession. Students will be prepared to utilize a variety of teaching techniques to positively influence student learning and success.