MATHEMATICAL SCIENCES

COLLEGE OF ARTS & SCIENCES

ABOUT THE MAJOR

Mathematics is both a fascinating field and a vital tool across STEM, business, and the social sciences. Students deepen their understanding of math's interconnected role by exploring a partner discipline, preparing them for diverse career paths. This interdisciplinary approach equips students with problem-solving skills essential for innovation and discovery in today's world.

CONTACT US

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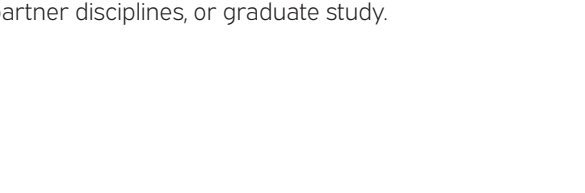
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admissions.scranton.edu/mathsci

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OUTCOMES & OPPORTUNITIES

- Choose one of five tracks: Actuarial Science/Finance, Biological Sciences, Computer & Information Science, Data Science or Physical Sciences.
- Students are encouraged to pursue internships and co-ops, gaining real-world experience while benefiting from Scranton's outstanding STEM and business programs that complement a degree in mathematical sciences.
- The Loyola Science Center fosters collaboration between Mathematics and Science programs, strengthening interdisciplinary learning. Graduates excel in math-related careers, partner disciplines, or graduate study.



THE UNIVERSITY *of* SCRANTON

MATHEMATICAL SCIENCES

121-122 Credits

LEARN MORE!

1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
MATH 114	Calculus I	4
CMPS 134	Computer Science I	4
Level I Digital Technology or **Level I Oral Communication**		3
PHIL 120	Introduction to Philosophy	3
HUMN ELECT	Humanities Elective	3
First Year Seminar		0
	Total Credits: **17**	

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
MATH 221	Calculus II	4
CMPS 144	omputer Science II	4
WRTG 107	Composition	3
T/RS 121	Theology I: Introduction to the Bible	3
HUMN ELECT	Humanities Elective	3
First Year Seminar		0
	Total Credits: **17**	

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
MATH 222	Calculus III	4
NSCI ELECT	Natural Sciences Elective	4-4.5
DS 201	Intro to Data Science	3
S/BH ELECT	Social/Behavioral Elective	3
PHIL 210	Ethics	3
	Total Credits: **17-17.5**	

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
MATH 351	Linear Algebra	3
NSCI ELECT	Natural Sciences Elective	4-4.5
T/RS 122	Theology II: Introduction to Christian Theology	3
HUMN ELECT	Humanities Elective	3
S/BH ELECT	Social/Behavioral Elective	3
	Total Credits: **16-16.5**	

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
MATH 312	Probablity	3
MATH 361	Numerical Analysis	3
CMPS 240	Data Structures & Algorithms	3
COGNATE ELECT	Cognate Elective	3
FREE ELECT	Free Elective	3
	Total Credits: **15**	

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
MATH 314	Mathematical Statistics	3
MATH 371	Applied Combinatorics	3
DS 362	Data-Driven Knowledge Discovery	3
COGNATE ELECT	Cognate Elective	3
FREE ELECT	Free Elective	3
	Total Credits: **15**	

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
MAJOR ELECT	Major Elective	3
STEM ELECT	STEM Elective	3
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Elective	3
	Total Credits: **12**	

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
MAJOR ELECT	Major Elective	3
STEM ELECT	STEM Elective	3
PHIL ELECT or **T/RS ELECT**	Philosophy Elective or Theology Elective	3
FREE ELECT	Free Elective	3
	Total Credits: **12**	

This is a sample curriculum. Please refer to the Undergraduate Catalog at **scranton.edu/catalog**.

09/2026