

Industrial and Systems Engineering Majors:

Path to a Minor in Mathematics

The mathematics minor will help you to understand mathematics at a deeper level, and it is particularly helpful for students considering graduate work. All of your courses for the math minor can count toward your major.***

Minor Requirements (15 hours)			How the minor course fits into ISYE major requirements	
	Prerequisite	Credits	Course	Credits
Required Courses				
MATH 3260 – Linear Algebra	C or better in MATH 1190	3	MATH 3260 – Linear Algebra	3
MATH 2203 – Calculus III**	C or better in MATH 2202	4	ENGR 1100 – Survey of Engineer Applications from Mathematics	4
Elective Courses				
ISYE 3400 – Deterministic Operations Research (substitutes for MATH 3272 in minor)	MATH 3260	3	ISYE 3400	3
Any MATH course, 2300 level or higher		3	ISYE Technical elective	3
Any MATH course, 3000 level or higher		3	ISYE Technical elective	3

**Students who declare the mathematics minor after completing ENGR 1100 can instead use MATH 2203 as an additional technical elective in the major.

Recommended MATH electives (check prerequisites):

- MATH 2345 (Discrete Mathematics) or MATH 2390 (Introduction to Logic, Set Theory, and Proofs) to learn proof-writing skills (particularly for students planning to go to graduate school)
- MATH 2306 (Differential Equations)
- MATH 4260 (Linear Algebra II)
- MATH 3322 (Graph Theory)

***This information was current as of 8/9/23. Please consult with your major department and your advisor to confirm that your major requirements have not changed.