

Mathematics Minor FAQ

What classes are required to graduate with a minor in mathematics?

The math minor requires completion of the three-semester Calculus sequence (56-2720 Calculus I, 56-2721 Calculus II, and 56-3710 Calculus III) in addition to three additional courses selected from the following electives: 56-3700 Discrete Mathematics, 56-3720 Elementary Differential Equations, 56-3730 Numerical and Mathematical Modeling, or 56-3740 Linear Algebra. In certain circumstances, students may also complete an Independent Study in place of an elective.

When are courses offered?

Calculus I and Calculus II are typically offered every semester. Calculus III and Linear Algebra are usually offered each fall. The other courses are typically offered in the spring semester, *at minimum once every two years*.

Fall	Spring
56-3710 Calculus III 56-3740 Linear Algebra	56-3700 Discrete Mathematics 56-3720 Elementary Differential Equations 56-3730 Numerical and Mathematical Modeling

Please note: the above does not constitute a guarantee. In some circumstances, courses may not be offered as planned. And courses that are offered may be cancelled due to low enrollment.

When I should I take which class?

Depending on your background, the department recommends the following three or four year plan for completing the minor:

	Fall	Spring
Year 0	56-2710 College Algebra*	56-2713 College Algebra & Trigonometry*
Year 1	56-2720 Calculus I	56-2721 Calculus II
Year 2	56-3710 Calculus III	56-3700 Discrete Mathematics† OR 56-3720 Elementary Differential Equations†
Year 3	56-3740 Linear Algebra†‡	56-3700 Discrete Mathematics† OR 56-3720 Elementary Differential Equations† OR 56-3730 Numerical and Mathematical Modeling†

* Depending on your background, you may not need to take either College Algebra or College Algebra & Trigonometry and will begin with Calculus I. The minor advisor (see below) can help you decide where to start.

† 56-3700, 56-3720, 56-3730, and 56-3740 are electives: you must complete three of those four courses.

‡ 56-3740 Linear Algebra is recommended for all students pursuing a mathematics minor due to the crucial role it plays in much of advanced mathematics.

What prerequisites do I need?

Course	Prerequisite
56-2720 Calculus I	56-2713 College Algebra & Trigonometry OR Compass Math score of 67 OR ACT Math score of 23
56-2721 Calculus II	56-2720 Calculus I
56-3700 Discrete Mathematics	56-2720 Calculus I
56-3710 Calculus III	56-2721 Calculus II
56-3720 Elementary Differential Equations	56-3710 Calculus II
56-3730 Numerical and Mathematical Modeling	56-2720 Calculus I Computer programming background required
56-3740 Linear Algebra	56-2720 Calculus I

What minimum grade do I need in classes for the minor?

Just as for a major, the current [College policy](#) states that you must pass a class with a minimum of a C in order for it to be counted towards the minor.

Can a single course count as part of the minor and for my major or LAS Core requirement?

Yes, completing the minor will satisfy the LAS mathematics requirement. If your major requires mathematics courses, no more than one course can be used to satisfy requirements for both the minor and your major.

What role does computer programming play in the mathematics minor?

Both 56-3740 Linear Algebra and 56-3730 Numerical and Mathematical Modeling incorporate computer programming. If you have little or no computer programming experience, you can still succeed in Linear Algebra, as alternatives to the programming assignments will be available. Due to the nature of the subject matter, however, Numerical and Mathematical Modeling is not recommended if you do not have experience in computer programming.

Who do I talk to get more information?

The math minor advisor is:

Daniel Jordan, Ph.D.

623 S. Wabash Ave., suite 500

Phone: 312-369-8503

email: djordan@colum.edu

I've decided I want to minor in mathematics. What do I do now?

To declare your intention to minor in mathematics, you should inform the minor advisor (see above) of your decision. You must also inform an advisor in the [College Advising Center](#) so that your academic record reflects your decision to pursue the minor.