

How to Minor in Mathematics or Computer Science at Wabash College

Mathematics Minor

A mathematics minor is useful to many majors. It will often directly aid majors in the natural and social sciences, but students majoring in the humanities may also find it a good complement to their majors. The abstraction and logical reasoning that students learn in mathematics classes can serve them well in any discipline.

The mathematics major has three tracks: **Pure Mathematics**, **Computational Mathematics**, and **Financial Mathematics**. Though as a minor you will not necessarily specialize in one of these areas, you can choose courses in the area that matches your interests best.

Mathematics minors come from all three divisions of the college. Recent graduates with mathematics minors have majored in disciplines such as physics, chemistry, biology, economics, psychology, philosophy, art, music, and classics.

If you would like to be added to the Canvas mailing list, please contact Rebekah Mason at masonr@wabash.edu.

Requirements For The Math Minor

Five or more course credits, **including**:

110* OR 111 Calculus I or Calculus with Pre-Calculus Review	112 Calculus II	223 Elementary Linear Algebra	Math Elective	Math Elective
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excluding the following courses:

103 Probability	104 Statistics	106 Topics in Contemporary Math.	108 Intro. To Discrete Structures
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*MAT 010 is a prerequisite for MAT 110, but it does not count as one of the five mathematics courses for the minor.

Most math minors follow the typical 111-112-223 sequence to begin, but you do not need to take MAT 223 immediately after MAT 112. There are several courses you can take having only had MAT 112, including the following:

- Geometry (221)
- Number Theory (222)
- Mathematical Finance (251)
- Interest Theory (252)
- Probability Models (253)
- Statistical Models (254)

After you've taken Linear Algebra (223), you can take most other courses in the department. See the academic bulletin for complete details.

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Computer Science Minor

A computer science minor is useful to many majors. It will often directly aid majors in the natural and social sciences, but students majoring in the humanities may also find it a good complement to their majors. Subdisciplines within computer science have strong ties to disciplines such as biology, psychology, and language studies. Faculty in many departments—including history, economics, music, art, and modern languages—have said their majors would benefit from minoring in computer science.

Computer science minors come from all three divisions of the college. Graduates with computer science minors have majored in disciplines such as mathematics, physics, chemistry, economics, art, music, classics, and religion.

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Requirements for the Computer Science Minor

The requirements for a minor in computer science are five courses in computer science and one course in mathematics. The courses must be:

Computer Science Courses

111 Intro to Programming	211 Intro to Data Structures	One Course numbered greater than 211	121 <small>(1/2) Credit Intro to Additional Prog. Languages</small>	CS Elective <small>(1/2) Credit</small>	CS Elective
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Mathematics Courses

108 Introduction to Discrete Structures	OR	219 Combinatorics
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Many computer science minors begin by taking CSC 101, Introduction to Computer Science. If you have some programming experience, or if you have a strong mathematics background, it is possible to begin by taking CSC 111 if you get permission from the instructor. Whether you begin with CSC 101 or 111, you should plan to take CSC 111 no later than the fall of your junior year (taking CSC 111 as a sophomore is preferable when possible).

The computer science minor does require one course in mathematics: either MAT 108 or MAT 219. If you are also majoring or minoring in mathematics, then you should take MAT 219 since it will also count toward your mathematics credit requirements. Be careful though, MAT 219 is only offered *in the spring of even numbered years*, so take it as soon as you can. If you are not majoring or minoring in mathematics, then MAT 108 is probably the best choice, and it's offered each fall.