

# DEPARTMENT OF MATHEMATICS

Mathematics has traditionally been the language of science and now plays a vital role in the social sciences and business as well. Every field in which quantitative activity is found requires that its workers have a strong background in mathematics. A student well-versed in mathematics will find their skills of use in almost any profession.

Although mathematics is studied for its applications, it also attracts many who are interested in its aesthetic and creative side. A study of mathematics improves one's ability to think about abstract concepts, to conceptualize about hypothetical structures, to reach logical conclusions, and to consider many solution techniques when problem solving.

## Majors/Emphases

Students may elect one of four emphases in the mathematics major. Emphases consist of the CORE courses and an additional 18 – 20 units of required or elective courses in the emphasis. In addition, students majoring in mathematics must complete a writing requirement (ENGLISH 370 or PWP 372), a computer science requirement<sup>1</sup>, and the Math Exit Interview milestone requirement. An approved minor is required with each emphasis.

<sup>1</sup> There is no Computer Science requirement for the Secondary Education Emphasis.

For more information on the different emphases including 4-year plans and Math Major FAQ, please visit the department's website: <http://www.uww.edu/cls/departments/math/>.

## CORE courses in the Mathematics Major - 20 units

Code	Title	Units
MATH 200	MATHEMATICS: FORM AND FUNCTION	1
MATH 253	CALCULUS AND ANALYTIC GEOMETRY I	5
MATH 254	CALCULUS AND ANALYTIC GEOMETRY II	4
MATH 255	CALCULUS AND ANALYTIC GEOMETRY III	4
MATH 280	DISCRETE MATHEMATICS	3
MATH 355	MATRICES AND LINEAR ALGEBRA	3
<b>Total Units</b>		<b>20</b>

## Majors in Mathematics

- Mathematics - Actuarial Science Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/actuarial-science-babs/>)
- Mathematics - Mathematics Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/math-ba-bs/>)
- Mathematics - Statistics Emphasis (BA/BS) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/mathematics-statistics-emphasis-ba-bs/>)
- Mathematics Education (BSE) (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/mathematics-bse/>)

## Minors in Mathematics

- Actuarial Mathematics (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/actuarial-mathematics-minor/>)
- Mathematics (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/mathematics-minor/>)
- Mathematics - Elementary Education (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/mathematics-minor-elementary-education/>)
- Mathematics - Secondary Education (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/mathematics-minor-secondary-education/>)
- Statistics (<http://www-public.courseleaf.com/undergraduate/letters-sciences/mathematics/statistics-minor/>)