

MATHEMATICS MAJOR REQUIREMENTS

The Department of Mathematics offers the mathematics major with five emphases: Applied, Pure, Statistics, Actuarial, and Secondary Education. *The Computer Mathematics major was phased out Spring 2014.* Following is a list of the required courses for the majors, their number of units, prerequisites and semester offered. **An approved minor is required with each major.**

Secondary Education Emphasis (39 units)

For students interested in a career as a mathematics educator at the middle or high school level.

<u>Courses</u>			<u>Offered</u>	<u>Prerequisite</u>
M253	5 units	Calculus and Analytic Geometry I	E	M152 with C or better
M254	5 units	Calculus and Analytic Geometry II	E	M250 with B or M253 with C or better
M255	3 units	Calculus and Analytic Geometry III	E	M254 with C or better
M280	3 units	Discrete Mathematics	E	M250 with B or M253 with C or better
M301	3 units	Introduction to Analysis	E	M255 and M280
M353	5 units	College Geometry	S	M253 and M280 or instructor consent
M355	3 units	Matrices and Linear Algebra	E	M250 with B or M253 with C or better
M359	3 units	Probability and Statistics for Teachers	E	M250 with B or M253 with C or better
M421	3 units	Mathematics for High School Teachers I	S	M280, M301 & 3 units upper level math
M422	3 units	Mathematics for High School Teachers II	F	M353 and M421
M452	3 units	Introduction to Abstract Algebra	E	M280 or instructor consent

Unique Requirements: English 370 Advanced Composition or English 372 Technical Writing

Licensure (38 units)

In addition to major and minor requirements, students in middle and secondary programs complete coursework and field experiences that provide opportunities to synthesize and apply knowledge of subject matter in middle and high schools.

A typical sequence of courses is as follows:

				<u>Offered</u>
1. SPECED 205	3 units	Introduction to Special Education		E
2. Foundations Block	9 units	PREREQ: 2.75 COM GPA, EITHER PASS SCORE 2 SECT PPST; CORE; PASS SCORE ACT, SAT, GRE IN LAST 5 YRS. COREQ: CONC ENROLL IN EDFNDPRC 210 & EDFOUND 243 OR CONSENT		
EDFOUND 243	3 units	Foundations of Education in a Pluralistic Society	(DV)(GI)	E
EDFOUND 212	3 units	Educational Psychology		
EDFNDPRC 210	3 units	Introduction to Education and Teaching		
3. EDFOUND 425	3 units	Measurement and Evaluation in the Secondary School		E
Pre-requisite: Junior status and admission to Professional Education.				
4. Methods Block	9 units			
Pre-requisite: Admission to Professional Education. (Refer to Curriculum & Instruction for course descriptions.)				
SECNDED 428	3 units	The Teaching of Mathematics in the Secondary School		F
SECNDED 466	3 units	Literacy Strategies for Content-Area Teachers		E
CIFLD 492	3 units	Field Study		
5. Student Teaching	14 units	Select one of the following options:		
CIFLD 402	2 units	Directed Teaching-Alternate Experience (Middle school)		
CIFLD 414	12 units	Directed Teaching (Secondary)		
OR				
CIFLD 404	2 units	Directed Teaching-Alternate Experience (Secondary)		
CIFLD 412	12 units	Directed Teaching (Middle school)		

For additional information, visit the College of Education & Professional Studies website: <http://www.uww.edu/coeps/advising-admissions/admissions/requirements>

E - Every Semester **S** - Every Spring **F** - Every Fall **SOY** - Every Odd Spring **SEY** - Every Even Spring **FOY** - Every Odd Fall **FEY** - Every Even Fall

Updated 4/26/16