

**Mathematics with Secondary Teaching Certification**  
(Department of Mathematical Sciences)

Major Requirements\*

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
[COSC 181] Computer Programming I	3	
[MATH 111] Calculus I	4-7	
(or [MATH 109] Calculus I, Part 1 (4) and [MATH 110] Calculus I, Part II (3))		
[MATH 112] Calculus II	4	
[MATH 195] First-Year Mathematics Seminar	3	
[MATH 211] Calculus III	4	
[MATH 261] Linear Algebra	3	
[MATH 307] Secondary Mathematics Instruction	2	
[MATH 362] Algebraic Structures	3	
[MATH 382] Geometry	3	
[MATH 412] Introduction to Real Analysis	3	
[MATH 494] Senior Mathematics Seminar	3	
[PHYS 211] General Physics I	4	
[PHYS 212] General Physics II	4	
[STAT 291] Statistics for Mathematical Sciences I	3	
<i>One of the following:</i>	3	
[COSC 182] Computer Programming II (3)		
[STAT 292] Statistics for Mathematical Sciences II (3)		
Three additional credits of approved MATH/STAT 3xx/4xx courses	3	
[EDUC 201] Education and American Society	3	
[EDUC 203]/[PSYC 203] Educational Psychology	3	
[EDUC 210] Sophomore Field Experience	0	
[EDSP 207] Introduction to Special Education	3	
[EDSP 307] Inclusion Practices	3	
[EDUC 310] Junior Field Experience	0	
[EDUC 331] Instructional Design & Assessment for Secondary Ed.	3	
[ENGL 330] Methodology in Teaching English as a Second Lang.	3	
ENGL xxx (ENGL 122 to ENGL 176)	3	
<b>Professional Semester:</b>		
[EDUC 420] Professional Issues in Education	2	
[EDUC 435] Student Teaching: Secondary	8	
[MATH 407] Secondary Mathematics Curriculum & Instruction	1	
[PSYC 311]/[HDFS 311] Adolescent Development	3	

\*Students who are considering secondary mathematics teaching as one of several career options in mathematical sciences are encouraged to complete an additional 6 credits of MATH/STAT 3xx/4xx courses. This allows you to graduate with a Mathematics degree, if you choose, while still maintaining Pennsylvania Secondary Teaching Certification.

General Education requirements on reverse side

**Mathematics with Secondary Teaching Certification**  
(Department of Mathematical Sciences)

General Education Requirements

<u>Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
First Year Seminar	3	
Oral Communications	3	
Created and Called for Community	3	
Mathematical Sciences ( <a href="#">[MATH 111]</a> or <a href="#">[MATH 112]</a> or <a href="#">[MATH 211]</a> )	3 or 4	<u>met by major</u>
Laboratory Science ( <a href="#">[PHYS 211]</a> or <a href="#">[PHYS 212]</a> )	3 or 4	<u>met by major</u>
Science, Technology & the World		<u>waived</u>
<b>Two</b> of the following:	6	
Social Science (3 credits – <a href="#">[EDUC 203]</a> )		<u>met by major</u>
European History (3 credits)		
United States History (3 credits)		
Literature (ENGL 122 to ENGL 176)	3	<u>met by major</u>
Philosophy and Religion	3	
Arts	3	
Language/Cross Cultural		
First Semester of Language	3	
Second Semester of Language	3	
Third Semester of Language or Cross Cultural	3	
Non-Western Studies	2 or 3	
Bible	3	
Christian Beliefs	3	
Health and Physical Fitness		
Introduction to Wellness	2	
Activity Course	1	
<b>One</b> of the following:	3	
Ethics (3 credits)		
World Views (3 credits)		
Pluralism in Contemporary Society (3 credits)		
Writing Enriched Course		

SUMMARY OF DEGREE REQUIREMENTS:

General Education	41-42
Major Requirements	87-90
<b>Total</b>	<b>128-132</b>

Major requirements on reverse side