

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

Major Requirements\*

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
<a href="#">[COSC 181]</a> Computer Programming I	3	
<a href="#">[MATH 111]</a> Calculus I	4-7	
(or <a href="#">[MATH 109]</a> Calculus I, Part 1 (4) and <a href="#">[MATH 110]</a> Calculus I, Part II (3))		
<a href="#">[MATH 112]</a> Calculus II	4	
<a href="#">[MATH 195]</a> First-Year Mathematics Seminar	3	
<a href="#">[MATH 211]</a> Calculus III	4	
<a href="#">[MATH 261]</a> Linear Algebra	3	
<a href="#">[MATH 307]</a> Secondary Mathematics Instruction	2	
<a href="#">[MATH 362]</a> Algebraic Structures	3	
<a href="#">[MATH 382]</a> Geometry	3	
<a href="#">[MATH 412]</a> Introduction to Real Analysis	3	
<a href="#">[MATH 494]</a> Senior Mathematics Seminar	3	
<a href="#">[PHYS 211]</a> General Physics I	4	
<a href="#">[PHYS 212]</a> General Physics II	4	
<a href="#">[STAT 291]</a> Statistics for Mathematical Sciences I	3	
<i>One of the following:</i>	3	
<a href="#">[COSC 182]</a> Computer Programming II (3)		
<a href="#">[STAT 292]</a> Statistics for Mathematical Sciences II (3)		
Three additional credits of approved MATH/STAT 3xx/4xx courses	3	
<a href="#">[EDUC 201]</a> Education and American Society	3	
<a href="#">[EDUC 203]</a> / <a href="#">[PSYC 203]</a> Educational Psychology	3	
<a href="#">[EDUC 210]</a> Sophomore Field Experience	0	
<a href="#">[EDSP 207]</a> Introduction to Special Education	3	
<a href="#">[EDSP 307]</a> Inclusion Practices	3	
<a href="#">[EDUC 310]</a> Junior Field Experience	0	
<a href="#">[EDUC 331]</a> Instructional Design & Assessment for Secondary Ed.	3	
<a href="#">[ENGL 330]</a> Methodology in Teaching English as a Second Lang.	3	
<b>Professional Semester:</b>		
<a href="#">[EDUC 420]</a> Professional Issues in Education	2	
<a href="#">[EDUC 435]</a> Student Teaching: Secondary	8	
<a href="#">[MATH 407]</a> Secondary Mathematics Curriculum & Instruction	1	
<a href="#">[PSYC 311]</a> / <a href="#">[HDFS 311]</a> 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	3	
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	44-45
Major Requirements	84-87
<b>Total</b>	<b>128-132</b>

Major requirements on reverse side