

Mathematics with Secondary Teaching Certification
(Department of Information and Mathematical Sciences)

Major Requirements*

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
<i>One of the following:</i>	3	
[CIS 181] Computer Programming I (3)		
[CIS 191] Web Development: Client Side (3)		
[MATH 111] Calculus I (or [MATH 109] Calculus I, Part 1 (4) and [MATH 110] Calculus I, Part II (3))	4-7	
[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/Physics 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>Complete one of the following sequences:</i>	3	
[CIS 181] Computer Programming I (3) and [CIS 182] Computer Programming II (3)		
[CIS 181] Computer Programming I (3) and [CIS 333] Business Systems Application (3)		
[COSC 191] Web Development: Client Side (3) and [COSC 291] Web Development: Server Side (3)		
[STAT 291] Statistics for Mathematical Sciences I (3) and [STAT 292] Statistics for Mathematical Sciences II (3)		
Three additional credits chosen from MATH/STAT 3xx/4xx, ENGR 365 (excluding MATH 391 except with departmental approval)	3	
[EDSP 207] Introduction to Special Education	3	
[EDSP 307] Inclusion Practices	3	
[EDUC 201] Education and American Society	3	
[EDUC 203]/[PSYC 203] Educational Psychology	3	
[EDUC 210]/[TEP 210] Sophomore Field Experience	0	
[EDUC 308] Instruction and Assessment with English Language Learners	3	
[EDUC 331] Instructional Design & Assessment for Secondary Ed.	3	
[TEP 310] Junior Field Experience	0	
ENGL xxx (ENGL 122 to ENGL 176)	3	
Professional Semester:		
[EDUC 420] Professional Issues in Education	2	
[TEP 410] Secondary Pre-Student Teaching Experience	0	
[TEP 435] Student Teaching: Secondary	8	
[MATH 407] Professional Issues in Secondary Mathematics Education	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 Information and 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 ([MATH 111] or [MATH 112] or [MATH 211])	3 or 4	<u>met by major</u>
Laboratory Science ([PHYS 211] or [PHYS 212])	3 or 4	<u>met by major</u>
Science, Technology & the World		<u>waived</u>
Two of the following:	6	
Social Science (3 credits – [EDUC 203])		<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	
One 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
Total	128-132

Major requirements on reverse side