

# Secondary Education/Mathematics Education

Learn more about the Bachelor of Science in Education in Secondary Education / Mathematics Education (<https://www.temple.edu/academics/degree-programs/secondary-education-math-education-major-ed-semester-based>).

Students seeking certification in Secondary Education: Mathematics **must** complete the requirements for **both** the major in Secondary Education: Mathematics **AND** for the Mathematics (B.A.) major as specified by the College of Science and Technology. The eight semester plan that appears in the Academic Plan tab is inclusive of all requirements for both the Secondary Education: Mathematics major housed in the College of Education **AND** for the Mathematics B.A. (<http://bulletin.temple.edu/undergraduate/science-technology/mathematics/ba-mathematics>) housed in the College of Science and Technology (CST). Students entering this major must declare the second major of Mathematics through CST.

## Summary of Requirements

### University Requirements

All students are required to complete the university's General Education (GenEd (<http://bulletin.temple.edu/undergraduate/general-education>)) curriculum.

All students (including transfer students) must take a minimum of two writing-intensive (WI) courses at Temple University. Writing intensive course numbers end in 96, 97 and 98.

### College Requirements

Students receive a Bachelor of Science in Education degree by meeting the following minimum College requirements:

- Completion of program requirements as detailed on the academic plan.
- Earn a "C-" or above in all required Education Courses.
- Earn a "C-" or above in all required University General Education Courses.
- Earn minimum grades required by CST in all Mathematics courses.
- Students in Secondary Education must maintain a 3.0 cumulative GPA and a 2.0 GPA in their content area courses.

For additional college and certification requirements, refer to the College Requirements page (<http://bulletin.temple.edu/undergraduate/education/#requirementstext>).

### Major Requirements

Code	Title	Credit Hours
EDUC 1255	Inclusive Education for a Diverse Society	3
EDUC 2103	Socio-cultural Foundations of Education in the United States <sup>1</sup>	3
EDUC 2109	Adolescent Development for Educators <sup>1</sup>	3
EDUC 2296	Effective Teaching: Theory and Practice	3
SPED 2231	Introduction to Inclusive Education <sup>1</sup>	3
EDUC 2255	Effective Use of Instructional Technology in Classrooms	3
EDUC 2306	Assessment and Evaluation	3
ENES 3338	Foundations of Language Teaching: Teaching English Language Learners in Grades 4 to 12	3
SECE 3796	Differentiated Literacy Instruction in the Disciplines, 7-12	3
EDUC 4111	Classroom and Conflict Management in Grades 4 through 12	3
SECE 4801	Senior Seminar and Performance Assessment in Secondary Education	3
SECE 4688	Student Teaching in Secondary Education	9
Total Credit Hours		42

<sup>1</sup> Course required for candidacy.

### Program Requirements for Secondary Education / Mathematics Education

Code	Title	Credit Hours
MAES 3145	Teaching & Learning Mathematics in the Middle Grades	3
MAES 4146	Teaching and Learning Mathematics in High School	3

MAES 4371	History of Mathematics	3
EDUC 4389	Field Experience	1
EDUC 4389	Field Experience	1
Total Credit Hours		11

## Academic Content Area for Mathematics

Code	Title	Credit Hours
MATH 1041	Calculus I	4
MATH 1042	Calculus II	4
MATH 2043	Calculus III	4
MATH 2101	Linear Algebra	3
or MATH 2103	Linear Algebra with Computer Lab	
MATH 2111	Basic Concepts of Math	3
MATH 3003	Theory of Numbers	3
MATH 3031	Probability Theory I	3
MATH 3032	Mathematical Statistics	3
MATH 3061	Modern Geometry I	3
MATH 3096	Introduction to Modern Algebra	3
MATH 3137	Real & Complex Analysis I	3
MATH 3138	Real & Complex Analysis II	3
MATH 4096	Senior Problem Solving	3
PHYS 1061	Elementary Classical Physics I	4
PHYS 1062	Elementary Classical Physics II	4
Select one of the following courses to fulfill the computer programming requirement:		4
CIS 1053	Programming in Matlab	
CIS 1057	Computer Programming in C	
CIS 1068	Program Design and Abstraction	
Total Credit Hours		54

## Suggested Academic Plan

### B.S.ED. in Secondary Education / Mathematics Education

#### Requirements for New Students starting in the 2018-2019 Academic Year

(Certain courses require that a student secure clearances as per the College of Education policy; students should check the current list of courses that require clearances on the College of Education web site (<https://education.temple.edu/ofp/clearances>.)

Year 1		Credit Hours
Fall		
ENG 0802, 0812, or 0902	Analytical Reading and Writing [GW] <sup>1</sup>	4
GenEd Breadth Course		3
GenEd Breadth Course		3
EDUC 2103	Socio-cultural Foundations of Education in the United States	3
MATH 1041	Calculus I <sup>1</sup>	4
Term Credit Hours		17
Spring		
IH 0851 or 0951	Intellectual Heritage I: The Good Life [GY] <sup>1</sup>	3
GenEd Breadth Course		3-4
EDUC 2255	Effective Use of Instructional Technology in Classrooms	3
MATH 1042	Calculus II <sup>1</sup>	4
PHYS 1061	Elementary Classical Physics I	4
Term Credit Hours		17

<b>Year 2</b>		
<b>Fall</b>		
IH 0852 or 0952	Intellectual Heritage II: The Common Good [GZ]	3
GenEd Breadth Course		3
MATH 2111	Basic Concepts of Math	3
MATH 2043	Calculus III	4
PHYS 1062	Elementary Classical Physics II	4
	Term Credit Hours	17
<b>Spring</b>		
SPED 2231	Introduction to Inclusive Education <sup>1,2</sup>	3
EDUC 2109	Adolescent Development for Educators <sup>1,2</sup>	3
EDUC 4111	Classroom and Conflict Management in Grades 4 through 12	3
MATH 3031	Probability Theory I	3
Select one of the following:		3-4
MATH 2101	Linear Algebra	
MATH 2103	Linear Algebra with Computer Lab	
	Term Credit Hours	15
<b>Year 3</b>		
<b>Fall</b>		
MAES 4371	History of Mathematics	3
EDUC 2296	Effective Teaching: Theory and Practice [WI]	3
MATH 3003	Theory of Numbers	3
MATH 3137	Real Complex Analysis I	3
Select one of the following:		4
CIS 1053	Programming in Matlab	
CIS 1057	Computer Programming in C	
CIS 1068	Program Design and Abstraction	
	Term Credit Hours	16
<b>Spring</b>		
EDUC 1255	Inclusive Education for a Diverse Society	3
MAES 3145	Teaching Learning Mathematics in the Middle Grades	3
EDUC 4389	Field Experience	1
MATH 3032	Mathematical Statistics	3
MATH 3138	Real Complex Analysis II	3
MATH 3096	Introduction to Modern Algebra [WI]	3
	Term Credit Hours	16
<b>Year 4</b>		
<b>Fall</b>		
ENES 3338	Foundations of Language Teaching: Teaching English Language Learners in Grades 4 to 12 <sup>2</sup>	3
MAES 4146	Teaching and Learning Mathematics in High School	3
EDUC 4389	Field Experience	1
SECE 3796	Differentiated Literacy Instruction in the Disciplines, 7-12 [WI]	3
MATH 3061	Modern Geometry I	3
MATH 4096	Senior Problem Solving [WI]	3
	Term Credit Hours	16
<b>Spring</b>		
SECE 4688	Student Teaching in Secondary Education	9
SECE 4801	Senior Seminar and Performance Assessment in Secondary Education	3
EDUC 2306	Assessment and Evaluation	3
	Term Credit Hours	15
	Total Credit Hours:	129

4 *Secondary Education/Mathematics Education*

1 Course must be successfully completed to be eligible for Candidacy approval.

2 These 3 courses constitute the waiver for the GenEd Human Behavior category if the courses are completed with a C- or better.