

SECONDARY EDUCATION (SECONDARY EDUCATION MATH) - BACHELOR OF SCIENCE IN EDUCATION

General education and professional education requirements are similar for all degree programs in the College of Health, Education, and Social Transformation. Students should meet with an advisor to plan appropriate general education courses for a secondary education major. The programs below are labeled as Concentrations in the catalog and on student transcripts but are also recognized as "Teaching Fields" for the Teacher Education Program. Students should meet with the College of HEST Educational Support and Resource Center for degree progress.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300/3000 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but it may be needed in order to take the necessary English and Mathematics coursework.

All students wishing to complete a degree in Secondary Education must apply to the Teacher Education Program. Additional information on the application process can be obtained from the College of HEST Educational Support and Resource Center or on the **departmental website**. A 2.75 minimum GPA is required for admission to the Teacher Education Program and graduation. Students must pass all TEP prerequisites/co-requisites with a C- or better grade.

Prefix	Title	Credits
General Education		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i> ¹		
ENGL 1110G	Composition I	4
or ENGL 1110H	Composition I Honors	
or ENGL 1110M	Composition I	
<i>English Composition - Level 2</i>		
Choose one from the following: ¹		
ENGL 2130G	Advanced Composition	
ENGL 2215G	Advanced Technical and Professional Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
<i>Oral Communication</i>		
Choose one from the following:		
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
ACOM 1130G	Effective Leadership and Communication in Agriculture	
HNRS 2175G	Introduction to Communication Honors	
<i>Area II: Mathematics</i>		
MATH 1511G	Calculus and Analytic Geometry I ²	4
or MATH 1511H	Calculus and Analytic Geometry I Honors	
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>		
Choose one from the following:		

PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1310G & PHYS 1310L	Calculus-Based Physics I and Calculus-Based Physics I Lab	
Choose one from the following:		4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
PHYS 1320G & PHYS 1320L	Calculus-Based Physics II and Calculus-Based Physics II Lab	
CEPY 1120G	Human Growth and Behavior	3
<i>Area V: Humanities</i>		
HIST 1110G	United States History I	3
or HIST 1120G	United States History II	
<i>Area VI: Creative and Fine Arts</i>		
Choose one from the following:		3
ARTH 1115G	Orientation in Art	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
<i>General Education Elective</i>		
HIST 1150G	Western Civilization I	3
or HIST 1160G	Western Civilization II	
Viewing a Wider World		
LIBR 311V	Information Literacy	3
The 2nd VWV requirements will be satisfied with the concentration/teaching field courses ³		
Departmental/College Requirements		
<i>Education Core Courses</i>		
EDUC 1185	Introduction to Secondary Education and Youth ^{1,4}	3
EDUC 3120	Multicultural Education ¹	3
SPED 3105	Introduction to Special Education in a Diverse Society ¹	3
EDLT 3110	Integrating Technology with Teaching ¹	3
EDUC 3997	Secondary Field Experience ^{1,4}	3
BLED 3120	Sheltered English Instruction for the ESL Classroom (Spring only) ⁵	3
EDUC 4510	Data Literacy and Assessment (Spring only) ⁵	3
EDUC 4520	Contemporary Issues in Education (Spring only) ^{4,5}	3
EDUC 4530	Computational Thinking in STEM Education (Spring only)	3
EDUC 4420	Teaching Mathematics at the Middle and High School Level (Fall only) ^{4,5}	3
READ 4330	Content Area Literacy (Fall only) ⁵	3
SPED 4150	Secondary Curriculum, Methods, and Materials for Special Education in a Diverse Society (Fall only) ⁵	3
<i>Student Teaching</i>		
EDUC 4820	Secondary Student Teaching ⁶	9
EDUC 4821	Middle and High School Student Teaching Seminar ⁶	3
<i>Math Concentration/Teaching Field Courses</i>		
MATH 2530G	Calculus III	3
CSCI 1110	Computer Science Principles	4
MATH 1531	Introduction to Higher Mathematics	3
MATH 2415	Introduction to Linear Algebra	3
STAT 3110	Statistics for Engineers and Scientists	3

or A ST 311	Statistical Applications	
Math elective 300/3000+		3
Math elective 300/3000+		3
Math elective 300/3000+		3
Non-Departmental Requirements		
MATH 1521G	Calculus and Analytic Geometry II	4
or MATH 1521H	Calculus and Analytic Geometry II Honors	
Choose one from the following:		3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics Honors	
Choose one from the following:		3
ANTH 1140G	Introduction to Cultural Anthropology	
ANTH 1115G	Introduction to Anthropology	
ANTH 1160G	World Archaeology	
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1120G	American National Government	
POLS 1110G	Introduction to Political Science	
POLS 1130G	Issues in American Politics	
POLS 2120G	International Relations	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Second Language: (not required)		
Electives, to bring the total credits to 120		0
Total Credits		120

- ¹ Courses are prerequisites/co-requisites for Teacher Education Program (TEP)
- ² MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1511G first.
- ³ The 9 credits of Upper-Division MATH courses that are apart of the Concentration/Teaching Field coursework will meet the 2nd VWW requirement.
- ⁴ Courses require Field Experience
- ⁵ Courses require admission to the TEP
- ⁶ Courses require admission to TEP and STEP.

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year		
Semester 1		Credits
ENGL 1110G	Composition I ¹	4
or ENGL 1110H	or Composition I Honors	
CEPY 1120G	Human Growth and Behavior	3
MATH 1511G	Calculus and Analytic Geometry I ¹	4
or MATH 1511H	or Calculus and Analytic Geometry I Honors	
HIST 1110G	United States History I	3
or HIST 1120G	or United States History II	

Students who need to enroll in 15 credits for Financial Aid purposes will need to take additional electives

Semester 2		Credits	15
COMM 1115G	Introduction to Communication	3	
or HNRS 2175G	or Introduction to Communication Honors		
or COMM 1130G	or Public Speaking		
or ACOM 1130G	or Effective Leadership and Communication in Agriculture		
MATH 1521G	Calculus and Analytic Geometry II ¹	4	
or MATH 1521H	or Calculus and Analytic Geometry II Honors		
EDUC 1185	Introduction to Secondary Education and Youth	3	
Choose one from the following:		3	
ECON 1110G	Survey of Economics		
ECON 2110G	Macroeconomic Principles		
ECON 2120G	Principles of Microeconomics Honors		
Area VI: Creative and Fine Arts Course ²		3	

Semester 1		Credits	16
Second Year			
Semester 1			
Choose one from the following:		3	
ENGL 2130G	Advanced Composition		
ENGL 2215G	Advanced Technical and Professional Communication		
ENGL 2221G	Writing in the Humanities and Social Science ¹		
MATH 2530G	Calculus III	3	
PHYS 1230G	Algebra-Based Physics I ¹	3	
or PHYS 1310G	or Calculus -Based Physics I		
PHYS 1230L	Algebra-Based Physics I Lab ¹	1	
or PHYS 1310L	or Calculus -Based Physics I Lab		
HIST 1110G	United States History I	3	
or HIST 1120G	or United States History II		
An ANTH/GEOG/POLS/SOCI Course ²		3	
Credits		16	

Semester 2		Credits	17
PHYS 1240G	Algebra-Based Physics II ¹	3	
or PHYS 1320G	or Calculus -Based Physics II		
PHYS 1240L	Algebra-Based Physics II Lab ¹	1	
or PHYS 1320L	or Calculus -Based Physics II Lab		
EDUC 3120	Multicultural Education	3	
SPED 3105	Introduction to Special Education in a Diverse Society	3	
CSCI 1110	Computer Science Principles	4	
LIBR 311V	Information Literacy	3	
Credits		17	

Third Year		
Semester 1		
APPLY TO TEACHER EDUCATION PROGRAM (TEP)		
EDLT 3110	Integrating Technology with Teaching	3
EDUC 3997	Secondary Field Experience	3
MATH 1531	Introduction to Higher Mathematics	3
MATH 2415	Introduction to Linear Algebra	3
A ST 311	Statistical Applications	3
Credits		15
Semester 2		
BLED 3120	Sheltered English Instruction for the ESL Classroom (Spring Only) ¹	3
EDUC 4510	Data Literacy and Assessment (Spring Only) ¹	3

EDUC 4520	Contemporary Issues in Education (Spring Only) ¹	3
EDUC 4530	Computational Thinking in STEM Education	3
Upper-Division MATH Elective Course ¹		3
Credits		15
Fourth Year		
Semester 1		
SUBMIT STEP PACKET		
READ 4330	Content Area Literacy (Fall Only) ¹	3
EDUC 4420	Teaching Mathematics at the Middle and High School Level (Fall Only) ¹	3
SPED 4150	Secondary Curriculum, Methods, and Materials for Special Education in a Diverse Society (Fall Only) ¹	3
Upper-Division MATH Elective Course ¹		3
Upper-Division MATH Elective Course ¹		3
Credits		15
Semester 2		
EDUC 4820	Secondary Student Teaching	9
EDUC 4821	Middle and High School Student Teaching Seminar	3
Credits		12
Total Credits		121

¹ These courses may have prerequisites and/or co-requisites, and it is the students responsibility for checking and fulfilling all those requirements.

² See the program requirements for a full list of courses.