

# 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 below programs are labeled as Concentrations in the catalog and on student transcripts, but are also recognized at "Teaching Fields" for the Teacher Education Program. Students should meet with the College of Education 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 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but 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 grade of C- or better.

Prefix	Title	Credits
<b>General Education</b>		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i>		
ENGL 1110G	Composition I <sup>1</sup>	4
<i>English Composition - Level 2</i>		
Choose one from the following: <sup>1</sup>		3
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:		3
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
ACOM 1130G	Effective Leadership and Communication in Agriculture	
<i>Area II: Mathematics</i>		
MATH 1511G	Calculus and Analytic Geometry I <sup>2</sup>	4
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>		
Choose one from the following:		4
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 or HIST 1120G	United States History I or United States History II	3
<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 or HIST 1160G	Western Civilization I or Western Civilization II	3
<b>Viewing a Wider World</b>		
LIBR 311V	Information Literacy	3
The 2nd VWW requirements will be satisfied with the concentration/teaching field courses <sup>3</sup>		
<b>Departmental/College Requirements</b>		
<i>Education Core Courses</i>		
EDUC 1185	Introduction to Secondary Education and Youth <sup>1,4</sup>	3
EDUC 3120	Multicultural Education <sup>1</sup>	3
SPED 3105	Introduction to Special Education in a Diverse Society <sup>1</sup>	3
EDLT 3110	Integrating Technology with Teaching <sup>1</sup>	3
EDUC 3997	Secondary Field Experience <sup>1,4</sup>	3
BLED 3120	Sheltered English Instruction for the ESL Classroom <sup>5</sup>	3
EDUC 4510	Data Literacy and Assessment <sup>5</sup>	3
EDUC 4520	Contemporary Issues in Education <sup>4,5</sup>	3
EDUC 4420	Teaching Mathematics at the Middle and High School Level <sup>4,5</sup>	3
READ 4330	Content Area Literacy <sup>5</sup>	3
SPED 4150	Secondary Curriculum, Methods, and Materials for Special Education in a Diverse Society <sup>5</sup>	3
<i>Student Teaching</i>		
EDUC 4820	Secondary Student Teaching <sup>5</sup>	9
EDUC 4821	Middle and High School Student Teaching Seminar <sup>5</sup>	3
<i>Math Concentration/Teaching Field Courses</i>		
MATH 2530G	Calculus III	3
C S 111	Computational Thinking for Solving Problems	4
E T 182	Introduction to Digital Logic	2
MATH 1531	Introduction to Higher Mathematics	3
MATH 2415	Introduction to Linear Algebra	3
STAT 3110 or A ST 311	Statistics for Engineers and Scientists or Statistical Applications	3
Math elective 300/3000+		3
Math elective 300/3000+		3
Math elective 300/3000+		3
<b>Non-Departmental Requirements</b>		
MATH 1521G	Calculus and Analytic Geometry II	4
Choose one from the following:		3

ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
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	
<b>Second Language: (not required)</b>		
<b>Electives, to bring the total credits to 120</b>		<b>1</b>
<b>Total Credits</b>		<b>120</b>

- <sup>1</sup> Courses are prerequisites/co-requisites for Teacher Education Program (TEP)
- <sup>2</sup> 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.
- <sup>3</sup> The 9 credits of Upper-Division MATH courses that are apart of the Concentration/Teaching Field coursework will meet the 2nd VWW requirement.
- <sup>4</sup> Courses require Field Experience
- <sup>5</sup> Courses require admission to the TEP

## 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.

<b>First Year</b>		
<b>Semester 1</b>		<b>Credits</b>
ENGL 1110G	Composition I <sup>1</sup>	4
CEPY 1120G	Human Growth and Behavior	3
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	4
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		1
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	or Public Speaking	
or ACOM 1130G	or Effective Leadership and Communication in Agriculture	
MATH 1521G	Calculus and Analytic Geometry II <sup>1</sup>	4
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	
Area VI: Creative and Fine Arts Course <sup>2</sup>		3
<b>Credits</b>		<b>16</b>
<b>Second Year</b>		
<b>Semester 1</b>		
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 <sup>1</sup>	
MATH 2530G	Calculus III	3
PHYS 1230G	Algebra-Based Physics I <sup>1</sup>	3
or PHYS 1310G	or Calculus -Based Physics I	
PHYS 1230L	Algebra-Based Physics I Lab <sup>1</sup>	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 <sup>3</sup>		3
<b>Credits</b>		<b>16</b>
<b>Semester 2</b>		
PHYS 1240G	Algebra-Based Physics II <sup>1</sup>	3
or PHYS 1320G	or Calculus -Based Physics II	
PHYS 1240L	Algebra-Based Physics II Lab <sup>1</sup>	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
C S 111	Computational Thinking for Solving Problems	4
E T 182	Introduction to Digital Logic	2
<b>Credits</b>		<b>16</b>
<b>Third Year</b>		
<b>Semester 1</b>		
APPLY TO TEACHER EDUCATION PROGRAM (TEP)		
LIBR 311V	Information Literacy	3
EDLT 3110	Integrating Technology with Teaching	3
EDUC 3997	Secondary Field Experience (Fall Only)	3
MATH 1531	Introduction to Higher Mathematics	3
MATH 2415	Introduction to Linear Algebra	3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
BLED 3120	Sheltered English Instruction for the ESL Classroom (Spring Only) <sup>1</sup>	3
EDUC 4510	Data Literacy and Assessment (Spring Only) <sup>1</sup>	3
EDUC 4520	Contemporary Issues in Education (Spring Only) <sup>1</sup>	3
A ST 311	Statistical Applications <sup>1</sup>	3
or STAT 3110	or Statistics for Engineers and Scientists	
Upper-Division MATH Elective Course <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Semester 1</b>		
SUBMIT STEP PACKET		
READ 4330	Content Area Literacy (Fall Only) <sup>1</sup>	3
EDUC 4420	Teaching Mathematics at the Middle and High School Level (Fall Only) <sup>1</sup>	3

SPED 4150	Secondary Curriculum, Methods, and Materials for Special Education in a Diverse Society (Fall Only) <sup>1</sup>	3
Upper-Division MATH Elective Course <sup>1</sup>		3
Upper-Division MATH Elective Course <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
EDUC 4820	Secondary Student Teaching	9
EDUC 4821	Middle and High School Student Teaching Seminar	3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

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

<sup>2</sup> See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) section of the catalog for a full list of courses.

<sup>3</sup> **ANTH/GEOG/POLS/SOCI Courses:**

- 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