

Mathematics, Secondary Education Certification

Bachelor of Science

Area A: Essential Skills		
Grades of C or better required.		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1113	Precalculus Mathematics	3
Area B: Institutional Options		
COMM 1110	Fundamentals of Speech	3
(Prerequisite for EDUC 2110 , EDUC 2120 , and EDUC 2130 . Grade of C or better required.)		
One of the following electives:		1
COMM 1120	Argumentation and Advocacy	
ENGL 1105	Intro to Greek Mythology	
ENGL 1110	Creative Writing	
GEOL 1000	Natural Hazards	
HIST 1050	Appalachian Hist-Special Topic	
HIST 1051	Sports Hist & Amer Character	
HUMN 1000	Mystery Fiction in Pop Culture	
HUMN 1100	Political and Social Rhetoric	
HUMN 1300	Christian Fiction/Pop Culture	
PHED 1030	Health & Wellness Concepts	
SOCI 1000	Race and Ethnicity in America	
Area C: Humanities/Fine Arts		
Choose one or two ENGL course(s):		3-6

ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ENGL 2120	British Literature I	
ENGL 2121	British Literature II	
ENGL 2130	American Literature I	
ENGL 2131	American Literature II	
ENGL 2201	Intro to Film as Literature	
If only one ENGL course chosen add one of the following:		0-3
ARTS 1100	Art Appreciation	
HUMN 1201	Expressions of Culture I	
HUMN 1202	Expressions of Culture II	
MUSC 1100	Music Appreciation	
MUSC 1110	World Music	
MUSC 1120	American Music	
THEA 1100	Theatre Appreciation	
Area D: Science/Mathematics/Technology		
MATH 2253	Calculus and Analytic Geom I *	4
One of the following Laboratory Science Sequences:		8
BIOL 1107K & BIOL 1108K	Principles of Biology I and Principles of Biology II	
CHEM 1211K & CHEM 1212K	Principles of Chemistry I and Principles of Chemistry II	
PHYS 1111K	Introductory Physics I	
or PHYS 2211K	Principles of Physics I	
PHYS 1112K	Introductory Physics II	

or PHYS 2212K	Principles of Physics II	
PHYS 2211K & PHYS 2212K	Principles of Physics I and Principles of Physics II	
Area E: Social Sciences		
HIST 2111	United States History to 1877	3
or HIST 2112	United States Hist since 1877	
POLS 1101	American Government	3
Two of the following electives:		6
ANTH 1103	Intro to Cultural Anthropology	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
GEOG 1100	Introduction to Geography	
GEOG 1101	Intro to Human Geography	
GEOG 1111	Intro to Physical Geography	
HIST 1111	World Civilization to 1650 CE	
HIST 1112	World Civilization since 1650	
HIST 2111	United States History to 1877	
HIST 2112	United States Hist since 1877	
PHIL 1103	Intro to World Religions	
PHIL 2010	Intro to Philosophical Issues	
PHIL 2020	Logic and Critical Thinking	
POLS 2101	Intro to Political Science	
POLS 2201	State and Local Government	
POLS 2301	Comparative Politics	

POLS 2401	International Relations	
PSYC 1101	Introduction to Psychology	
(Prerequisite for EDUC 2110 , EDUC 2120 , and EDUC 2130 . Grade of C or better required.)		
PSYC 2101	Psychology of Adjustment	
PSYC 2103	Human Development	
SOCI 1101	Introduction to Sociology	
SOCI 1160	Social Problems	
Area F: Major Related		
Grades of C or better required.		
CMPS 1301	Principles of Programming I	3
MATH 2254	Calculus and Analytic Geom II	4
MATH 2255	Calculus and Analytic Geom III	4
MATH 2256	Introduction to Linear Algebra	3
MATH 2403	Differential Equations	4
Upper Level Required Courses		
MATH 3101	Intro to Advanced Mathematics	3
MATH 3201	Geometry	3
MATH 4001	History of Mathematics	3
MATH 4101	Abstract Algebra I	3
MATH 4201	Number Theory	3
MATH 4301	Graph Theory	3
MATH 4601	Real Analysis I	4
MATH 4701	Probability and Statistics I	3
Upper Level Math Electives		

Choose one of the following:		3
MATH 4102	Abstract Algebra II	
MATH 4602	Real Analysis II	
MATH 4702	Probability and Statistics II	

Education Courses		
Prior to enrollment in EDUC 2110 , EDUC 2120 , and EDUC 2130 , students must have taken PSYC 1101 , COMM 1110 , and Area A courses with grades of C or better. Approved Background check, proof of professional Liability Insurance, completion of the mandated reporter training course, and a passing score on an Ethics assessment are also required. EDUC 2110 , EDUC 2120 , EDUC 2130 must be completed with grades of C or better prior to acceptance into PES 1.		
EDUC 2110	Investig Critical/Contem Issue (Includes 10 hrs of practicum)	3
EDUC 2120	Expl Socio-Cultural Perspect (Includes 10 hrs of practicum)	3
EDUC 2130	Exploring Learning/Teaching (Includes 10 hrs of practicum)	3

Professional Education Semester 1 (Block I) - Fall Semester		
Prior to enrollment in PES I courses, students must be accepted to the Teacher Education Program and have completed 8 credit hours of Mathematics with grades of C or better.		
EDUC 3902	Curric/Asses Secondary Teacher	3
EDUC 3272	Class Mgmt Sec Ed Field Exp I	2

Professional Education Semester 2 (Block II) - Spring Semester		
Prior to enrollment in PES II courses, students must have completed EDUC 3902 and EDUC 3272 with grades of C or better.		
EDUC 3273	Class Mgmt Sec Ed Field Exp II	2
EDUC 4901	Methods/Strat Teach Sec Stu	3

Professional Education Semester 3 (Block III) - Fall Semester		
Prior to enrollment in PES III, students must have completed EDUC 3273 and EDUC 4901 with grades of C or better.		
EDUC 3120	Teaching Diverse Learners(Sec)	3
EDUC 3274	Class Mgm Sec Ed Field Exp III	2

Professional Education Semester 4 (Block IV) - Spring Semester		
Prior to enrollment in PES IV, students must have completed EDUC 3120 , EDUC 3274 , and 24 credit hours of Mathematics with grades of C or better.		
READ 3456	Reading across Curric Sec Educ	3
EDUC 4951	Internship in Sec School Math	8
EDUC 4953	Teaching Internship Seminar	1

Physical Education		
PHED Activity Elective		1
Total Hours		126

* MATH 2253 may be taken in Area A if the student meets the prerequisites, with MATH 2254 then taken in Area D. The additional hour of credit will be applied to the upper level curriculum.

** Prior to enrollment in EDUC 2110 and EDUC 2120 students must have taken ENGL 1101. For EDUC 2130, students must have taken ENGL 1101 and PSYC 1101 with grades of C or better. Approved Background check, proof of professional Liability Insurance, completion of the mandated reporter training course, and a passing score on an Ethics assessment are also required. EDUC 2110, EDUC 2120, EDUC 2130 must be completed with grades of C or better prior to acceptance into PES 1.