

Lock Haven University
Mathematics Department
Bachelor of Science in Education (B.S.Ed.)
Secondary Education - Mathematics Concentration

For Students entering LHU Fall 2016

Intellectual Foundation	9 sh
Written Communication	3 sh
ENGL100: Composition (3 sh)	
WC Competency 1	
WC Competency 2	
Oral Communication	3 sh
Mathematical and Computational Thinking	3 sh.
#MATH141: Calculus I	3 sh
Critical Thinking	
CT Competency 1	
CT Competency 2	

Knowledge and Inquiry	21 sh
Natural Science Inquiry (at least one lab)	6 sh
Historical, Behavioral, and Social Science Inquiry	6 sh
PSYC103: Adolescent Development	3 sh
Philosophical, Literary, and Aesthetic Inquiry	9 sh
ENGL110: Introduction to Literature	3 sh

Personal and Social Responsibility	12 sh
Global Awareness and Citizenship	9 sh
#SPEC202: Cult./Ling. Diversity in Education	3 sh
HIST1xx: World History 1 OR World History 2	3 sh
Wellness	3 sh
Experiential Learning	
EL Competency 1	
EL Competency 2	

Electives	6 sh

First Year Student Seminar	1 sh
	1 sh

Major Area and Cognate Courses	71 sh
#COMP160: Programming I	3 sh
#MATH141: Calculus I	MCT
#MATH142: Calculus II	3 sh
#MATH205: Foundations of Mathematics	3 sh
#MATH225: History of Mathematics (Spring only)	3 sh
#MATH243: Calculus III	3 sh
#MATH302: Number Theory (Fall only)	3 sh
#MATH307: Foundations of Geometry (Fall only)	3 sh
#MATH310: Modern Algebra I (Spring only)	3 sh
#MATH311: Elements of Linear Algebra (Spring)	3 sh
#MATH312: Prob. and Statistics (Spring only)	3 sh
#MATH401: Real Analysis I (Fall only)	3 sh

Professional Education Courses	
#MATH125: Intro to Sec. Math (Spring only)	1 sh
#MATH218: Technology in Sec. Math (Fall)	1 sh
#MATH327: PCK in Sec. Mathematics 1 (Spring)	1 sh
#MATH200: Secondary Math. Methods 1	3 sh
#MATH316: Secondary Math. Methods 2	4 sh
#MATH427: PCK in Sec. Mathematics 2	2 sh
#MATH493: Student Teach and Practicum	6 sh
#MATH494: Student Teach and Practicum	6 sh
#SPEC202: Cult./Ling. Diversity in Education	GAC
#SPEC204: Cognitive Dev. Of Diverse Learners	3 sh
#SPEC309: Literacy Instr. For Students w/ Disab	3 sh
#SPEC345: Effective Instr. For Students w/ Disab.	3sh
#PSYC201: Educational Psychology	3 sh
#EDUC312: Classroom Mgmt. for Secondary Ed.	2 sh

**Lock Haven University
Mathematics Department
Secondary Education Track
Suggested Course Sequence**

Fall Freshman (example)

ENGL100: Composition (3)
MATH119: First Year Student Seminar (1)
MATH141: Calculus 1 (3) [MCT,CT]
PSYC103: Adolescent Devel. (3) [HBS]
Philos., Literary, and Aesth. (3) [PLA]
HIST1xx: World History I or II (3) [HBS]

Credit Total: 16

Spring Freshman (example)

MATH142: Calculus 2 (3)
MATH125: Intro to Sec. Math. (1)
SPEC204: Cog. Dev. of Diverse Learn. (3)
COMP160: Programming 1 (3)
Global Awareness and Citiz. (3) [GAC]
ENGL110: Intro. to Literature (3) [PLA]

Credit Total: 16

Fall Sophomore (example)

MATH243: Calculus 3 (3)
MATH205: Foundations of Math. (3)
SPEC202: Cult./Ling. Div. Ed. (3) [GAC]
MATH218: Tech in Sec. Math. (1)
Natural Science (with lab) (3) [NS]
Wellness (3) [WEL]

Credit Total: 16

Spring Sophomore (example)

MATH311: Linear Algebra (3)
MATH225: History of Math. (3) [WC,CT]
MATH200: Methods of Teach. Math 1 (3)
PSYC201: Educational Psychology (3)
Global Awareness and Citiz. (3) [GAC]

Credit Total: 15

Fall Junior (example)

MATH302: Number Theory (3)
MATH307: Foundations of Geom. (3)
Natural Science (3) [NS]
Philos., Literary, and Aesth. (3) [PLA]
Elective (3)

Credit Total: 15

Spring Junior (example)

MATH310: Modern Algebra (3)
MATH312: Prob. and Statistics (3)
Oral Communication (3) [OC]
SPEC345: Lit. Inst. for Disab. (3)
Elective (3)
MATH327: PCK for Sec. Math 1 (1)

Credit Total: 16

Fall Senior (example)

MATH401: Real Analysis (3)
MATH316: Meth. of Teach. Math. (4)
MATH427: PCK in Sec. Math. 2 (2)
EDUC312: Classroom Mgmt. (2)
SPEC309: Eff. Ins. Strat. For Disab. (3)

Credit Total: 14

Spring Senior (example)

MATH493: Student Teach. 1 (6) [EL,WC]
MATH494: Student Teach. 2 (6) [EL,WC]

Credit Total: 12