



Department of Education  
**INTEGRATED MATHEMATICS**  
**AYA MAJOR/MATHEMATICS MINOR**  
 Program Outline  
 For Students Under the 2022-2023 BW Catalog

Name \_\_\_\_\_ ID# \_\_\_\_\_ Advisor \_\_\_\_\_

Degree Earned: Bachelor of Science in Education (BSEd)  
 License Earned: Mathematics, 110094  
 OAE Exams: 003 Assessment of Professional Knowledge: Adolescence to Young Adult (7-12); 027 Mathematics  
 GPA Requirements for Graduation: 2.800 Cumulative, 2.800 in EDU Courses, 2.500 MTH Minor Courses

Courses marked with # fulfill the MTH minor requirements.  
 MTH Minor requires 17 total credits which must include MTH 141, MTH 142, and a course above 200 level.

Course #	Course Title	Hours	Advising Notes: Unless otherwise noted, course is offered in Fall and Spring)
MTH 118	Algebraic Thinking Through Modeling <i>Prerequisite: MTH 111, MTH 112 (Grade of C- or higher in both)</i>	3	Offered Fall Only
MTH 141#	Calculus I <i>Prerequisite: MTH 140 or an ACT Math Score of 27 or higher, an SAT Math Section Score of 550 or higher (if taken prior to March 2016), a SAT Math Section Score of 640 (if taken after March 2016), or a SAT Math Test Score of 28.5 or higher, or Instructor permission.</i>	4	
MTH 142#	Calculus II <i>Prerequisite: MTH 141</i>	4	
MTH 202#	Number Theory & Abstract Algebra for Teachers <i>Prerequisite/Corequisite: MTH 141</i>	3	Offered Every Third Fall beginning Fall, 2021
MTH 203#	Calculus Concepts for Teachers <i>Prerequisite/Corequisite: MTH 141</i>	3	Offered Every Third Fall, Beginning Fall, 2020
MTH 206#	Mathematical Logic and Proof Methods <i>Prerequisite: MTH 141</i>	3	Offered Fall Only
MTH 211#	Linear Algebra <i>Prerequisite: MTH 141</i>	3	Offered Spring Only
MTH 235#	Probability & Statistics for Scientists & Engineers <i>Recommended: CSC 210, or CSC 211, or CSC 212</i>	3	
MTH 243#	Calculus III <i>Prerequisite: MTH 142</i>	4	
MTH 315#	College Geometry <i>Prerequisite/Corequisite: MTH 206</i>	3	Offered Fall Odd Years Only
MTH 405# or PHY 102 or MTH 151	Theory of Probability <i>Prerequisite: MTH 243 or permission of instructor</i> <i>Recommended: course in Elementary Statistics</i> Problem Solving Contemporary Mathematics <i>Prerequisite: An ACT Math Score of 22 or higher, a SAT Math Section Score of 520 or higher (if taken prior to March 2016), a SAT Math Section Score of 550 (if taken after March 2016), or a SAT Math Test Score of 27.5 or higher, a math placement score of at least 75 or higher, or a score of 80% or higher on the BW Math Placement Exam</i>	4 or 3 or 3	Offered Fall Even Years Only  Offered Fall Only
Two MTH Courses at 400 level	MTH 315 fulfills one of the two course requirements. If MTH 405 is taken, this requirement is met. If MTH 405 is not taken, then an additional MTH 300-400 Level course is required.	0-4	

