

BACHELOR OF SCIENCE MATHEMATICS MAJOR

2016/17 Academic Year

REQUIRED	JUNIOR LEVEL COURSES ^{1,2}	9 CREDITS
□ MATH 114: Elementary Calculus I³ □ MATH 115: Elementary Calculus II □ MATH 120: Basic Linear Algebra I <i>or</i> MATH 125: Linear Algebra I □ CMPT 101: Introduction to Computing I <i>or</i> CMPT 103: Introduction to Computing II		
REQUIRED SENIOR LEVEL COURSES		18 CREDITS
15 CREDITS	 MATH 214: Intermediate Calculus I MATH 215: Intermediate Calculus II MATH 225: Linear Algebra II MATH 310: Real Analysis MATH 330: Ordinary Differential Equations 	
3 CREDITS OR	☐ MATH 200: Fundamental Concepts of Mathematics ☐ MATH 241: Geometry	
GENERAL	SENIOR LEVEL COURSES	24 CREDITS
Within the 24 credits required to meet this major's general requirements, a minimum of 6 credits must be completed at the 400-level.		
□ MATH 200: Fundamental Concepts of Mathematics □ MATH 222: Introduction to Discrete Mathematics □ MATH 241: Geometry □ STAT 265: Probability Theory □ MATH 311: Theory of Functions of a Complex Variable □ MATH 320: Elementary Number Theory □ MATH 321: Fields and Modules □ MATH 335: Numerical Methods □ MATH 341: Modern Geometries □ MATH 350: Introduction to Graph Theory □ MATH 361: History of Mathematics □ MATH 410: Analysis and Topology □ MATH 420: Groups and Galois Theory □ MATH 436: Introduction to Partial Differential Equations □ MATH 495: Special Topics in Mathematics ⁴		

IMPORTANT PLANNING NOTES

- 1. These courses can be used to satisfy core requirements in the Bachelor of Science degree. Additional prerequisites may be required for other courses in this major.
- 2. Students are required to consult with the MacEwan University Academic Calendar to ensure they meet the prerequisites for all Mathematics courses they enrol in.
- 3. This requirement can also be met with MATH 113, which was previously offered at MacEwan University.
- 4. Students may take MATH 495 for credit a maximum of two times, as long as the course topic is different each time they take it.

This planning sheet should be used only as a **guide** for course planning and it should be used in conjunction with the Bachelor of Science Degree Planner. Remember: not all courses listed are offered each year and course offerings are subject to change. In the event of a discrepancy between the information presented on this sheet and that available on myStudentSystem, the information on myStudentSystem will be considered accurate.