## REQUIRED JUNIOR LEVEL COURSES ${ }^{1,2}$

## 9 CREDITS

## MATH 114: Elementary Calculus ${ }^{3}$

MATH 115: Elementary Calculus IIMATH 120: Basic Linear Algebra I or MATH 125: Linear Algebra I

## REQUIRED SENIOR LEVEL COURSES

## 18 CREDITS

15 CREDITS $\square$ MATH 214: Intermediate Calculus IMATH 215: Intermediate Calculus IIMATH 225: Linear Algebra IIMATH 310: Real AnalysisMATH 330: Ordinary Differential Equations
3 CREDITS $\quad \square$ MATH 200: Fundamental Concepts of Mathematics
OR $\square$ MATH 241: Geometry
GENERAL SENIOR LEVEL COURSES
Within the 24 credits required to meet this major's general requirements, a minimum of 6 credits must be completed at the 400 -level.
$\square$ MATH 200: Fundamental Concepts of MathematicsMATH 222: Introduction to Discrete MathematicsMATH 228: Algebra: Introduction to Ring TheoryMATH 241: GeometrySTAT 265: Probability TheoryMATH 311: Theory of Functions of a Complex VariableMATH 320: Elementary Number TheoryMATH 321: Fields and ModulesMATH 341: Axiomatics of GeometryMATH 350: Introduction to Graph TheoryMATH 361: History of MathematicsMATH 410: Analysis and TopologyMATH 420: Groups and Galois TheoryMATH 430: Applied Dynamical SystemsMATH 436: Introduction to Partial Differential Equations
$\square$ MATH 495: Special Topics in Mathematics and Statistics ${ }^{4}$

## 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.
