MacEwan UNIVERSITY

BACHELOR OF SCIENCE
MATHEMATICS MINOR
2014/15 Academic Year

REQUIRED JUNIOR LEVEL COURSES[1,2]   9 CREDITS

☐ **MATH 114: Elementary Calculus I**[3]
☐ **MATH 115: Elementary Calculus II**
☐ **MATH 120: Basic Linear Algebra I** *or* **MATH 125: Linear Algebra I**

GENERAL SENIOR LEVEL COURSES[4]   18 CREDITS

Within the 18 credits required to meet this minor's requirements, a minimum of 6 credits must be completed at the 300- or 400-level.

☐ **MATH 200: Fundamental Concepts of Mathematics**
☐ **MATH 214: Intermediate Calculus I**
☐ **MATH 215: Intermediate Calculus II**
☐ **MATH 222: Introduction to Discrete Mathematics**
☐ **MATH 225: Linear Algebra II**
☐ **MATH 228: Algebra: Introduction to Ring Theory**
☐ **MATH 241: Geometry**
☐ **STAT 265: Probability Theory**
☐ **MATH 310: Real Analysis**
☐ **MATH 311: Theory of Functions of a Complex Variable**
☐ **MATH 320: Elementary Number Theory**
☐ **MATH 321: Fields and Modules**
☐ **MATH 330: Ordinary Differential Equations**
☐ **MATH 341: Axiomatics of Geometry**
☐ **MATH 350: Introduction to Graph Theory**
☐ **MATH 361: History of Mathematics**
☐ **MATH 410: Analysis and Topology**
☐ **MATH 420: Groups and Galois Theory**
☐ **MATH 430: Applied Dynamical Systems**
☐ **MATH 436: Introduction to Partial Differential Equations**
☐ **MATH 495: Special Topics in Mathematics and Statistics**[5]

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. Arts students who choose a Mathematics minor must comply with Bachelor of Science minor residency requirements. Science minors must complete a minimum of nine senior level MacEwan University credits, including a minimum of three credits at the 300- or 400-level.

5. 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 or Bachelor of Arts 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.*