*Foundations of College Mathematics 11, MBF 3C* Overall Expectations

**UNIT: Mathematical Models**

\_\_\_\_\_demonstrates an understanding of exponents, and makes connections between the numeric, graphical, and algebraic representations of exponential relations



\_\_\_\_\_describe and represent exponential relations, and solve problems involving exponential relations arising from real-world applications



**UNIT: Personal Finance**

\_\_\_\_\_compares simple and compound interest, relates compound interest to exponential growth, and solves problems involving compound interest



\_\_\_\_\_compares services available from financial institutions, and solves problems involving the cost of making purchases on credit



\_\_\_\_\_interprets information about owning and operating a vehicle, and solves problems involving the associated costs



**UNIT: Geometry & Trigonometry**

\_\_\_\_\_represents, in a variety of ways, two-dimensional shapes and three-dimensional figures arising from real-world applications, and solves design problems



\_\_\_\_\_solves problems involving trigonometry in acute triangles using the sine law and the cosine law, including problems arising from real-world applications



**UNIT: Data Management**

\_\_\_\_\_solves problems involving one-variable data by collecting, organizing, analyzing, and evaluating data



\_\_\_\_\_determines and represents probability, and identifies and interprets its applications