|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Math for College Liberal Arts** | | | | |
|  | | **Description of Average Weekly Outside Requirements** | |
| **Main Topics**  **(What main ideas/concepts are covered):**   * Solve/Graph Linear Functions * Exponential Functions * Data Analysis and Probability * Regression Analysis * Quadratic Functions * Simple/compound Interest * Geometric Reasoning * Logic and Discrete Theory | **Rationale**  **(Why a student should take this course):**  This course will strengthen and deepen a student’s algebra and geometry skills and understanding. | **Reading**  There will be some reading and reading comprehension required with the word problems with real world scenarios | **Written**  While some questions will need to be written in sentence form, most will be equations and short answer interpretations. |
| **Grade Composition**  **(How grades are determined):**  Chapter Tests  Quizzes  Homework/classwork assignments | **Skill Development**  **(Skills developed in this course and how):**  This course is a review and more in-depth exploration of Algebra I and Geometry skills, presented with real world applications. | In Mathematics for College Liberal Arts, instructional time will emphasize five areas: (1) analyzing and applying linear and exponential functions within a real-world context; (2) utilizing geometric concepts to solve real-world problems; (3) extending understanding of probability theory; (4) representing and interpreting univariate and bivariate data and (5) developing understanding of logic and set theory. | |
| **Required Skills**  **(Skills necessary to be successful in this course)**  Algebra I and basic Geometry skills (i.e. graphing, solving equations, order of operations, basic understanding of linear, exponential, and quadratic functions.) |