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| **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 TestsQuizzesHomework/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.) |