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| **Course title:**  College Algebra  (aka Pre-Calculus I) | **Recommended Course Number:** |
| **Recommended Credit Hours:** 3 | **Recommended Course Prerequisites and/or Co-requisites:** |
| **Next Course in Sequence:**  Pre-Calculus II |

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| **Purpose of Course:**  Preparation for Calculus |
| **Intended Audience:**  STEM those students enrolled in programs requiring calculus, e.g. Business transfer |
| **Course Description:**  Ist of a two course sequence… |
| **Course Major Units:**   * Review linear equations and straight-line graph * Quadratic equations and inequalities * Inverse functions, exponentials, logs, and graphs * Theory of functions and graphs * Basic triangle trig * Trig identities |
| **Learning Outcomes:**   * Upon completion of this course, students will be able to:   + Quadratic equations:     - Solve quadratic equations by factory, completing the square, and quadratic formula     - Graph quadratic equations       * construct and recognize       * graph of quadratic equations     - Apply quadratic equations and graphs to real life examples |
| **Comments:**  Is there a Pre-Calc II?  Systems of linear equations?  What is college Algebra below Pre-Calc?  Bulk up and offer more specifics  2 or 4 year STEM, transfer into STEM?  Why two courses in Pre-Calc?  What about rational expressions, radical expressions?  What two courses, which course is first and second?  How would you measure?  Create quadratic equations from graphs or roots?  Square root method  Incorporate some of Axis into description  Why does it need to be real life? |