| Course: College Algebra (MATH 1314/1414) |
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| Course Description: ACGM standard |
| Enduring Understanding/Essential Question: |

| Key Concepts/Student Learning Outcomes | Texas College and Career Readiness Standards (CCRS) - Math | Texas College and Career Readiness Standards (CCRS) - Cross-Disciplinary - | Summative Assessment | Instructional Strategies | Formative Assessment Strategies | Resources | Prerequisite Knowledge & College Course Expectations |
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| Analysis of Functions | 1. Understand and analyze features of a function. | Academic Behaviors ..Persevere to complete and master tasks ..Self monitor | 1.A) Mid-terms & Final Wide range of testing formats: multiple choice, open ended, and projects (i.e., data gathering research level) | 1.A) Introductory review of pre-requisite content ½ to 1 class period | 1.A) Standardized online homework assignments (open-ended, free response, true/false, multiple choice, numeric entry). Allows multiple attempts and repetitive practice 1.B) Class room discussion | 1.A) Textbook print/online 1.B) Online course delivery platform (e.g., Pearson, ALEKS, Enhanced Web Assign) 1.C) Tutoring labs 1.D) Instructor tutoring | 1. Basic arithmetic operations: add/subtract/multiply/divide 2.Fractions/decimals/percents Algebraic field properties: a) Commutative b) Associative c) Distributive d) Order of Operations Used to evaluate, transform and solve variable equations & expressions |
| | 2. Algebraically construct and analyze new functions. | Work habits ..Work independently | 2.A) Mid-terms & Final Wide range of testing formats: multiple choice, open ended, projects (i.e., data gathering research level) | 2.A) Begin with practical application/real world motivation (e.g. money conversion between multiple countries and back). This lends itself to multiple representations. 2.B) Lead-in to next topics on inverses – specifically exponential/logarithmic. | 2.A) Standardized online homework assignments (open-ended, free response, true/false, multiple choice, numeric entry). Allows multiple attempts and repetitive practice 2.B) Class room discussion | 2.A) Textbook print/online 2.B) Online course delivery platform (e.g., Pearson, ALEKS, EWA) 2.C) Tutoring labs 2.D) Instructor tutoring | • Make-up and Redo exams and/or late assignments are not college practices. • Self-monitoring of work is a necessity to be successful in post-secondary education. • Course grades are based solely upon student performance as outlined in course syllabi and not effort based. |

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