**UT Math 1340: Course Inventory in CEMS**

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| Course # | Math 1340 |
| Course Title | College Algebra & Trigonometry |
| Campuses (Main, Regional) | Main |
| Beginning Term (when is (was) it offered for the first time?) | Fall 1997 |
| Credit Hours (including the entire course, lecture/lab) | 5 |
| Co-/Pre-requisite | Intermediate Algebra and High School Trigonometry or appropriate placement score. |
| Catalog Description | Functions and graphs, exponential and logarithmic functions, trigonometric functions and applications, systems of equations and topics in analytic geometry. |
| Textbook/Lab Manual | ISBN: 9781133949015  Title: Precalculus  Publisher: Brooks/Cole  Author: Ron Larson  Edition: 9th edition  Copyright Year: 2014  Additional Notes: |
| Outside Readings/Ancillary Materials/ Instructional Resources | Enhanced WebAssign |
| Instructional Goals or Objectives | The objective of this course is to develop the students' mathematical skills, with emphasis on problems relating to algebra and polynomials. Upon completion of the course, the student will be able to:  1. Simplify polynomial, rational, exponential and radical expressions.  2. Simplify expressions and solve equations involving complex numbers.  3. Graph polynomial and rational functions in a two-dimensional coordinate system.  4. Identify the range and domain of a function.  5. Evaluate logarithms and solve exponential and logarithmic equations.  6. Evaluate trigonometric functions on the unit circle and in a right triangle.  7. Simplify and apply trigonometric identities and solve trigonometric equations.  8. Solve triangles using Law of Sines and Law of Cosines.  9. Solve linear and non-linear systems of equations.  10. Identify equations of conic sections and sketch the graphs. |
| Description of Assessment and/or Evaluation of Student Learning | Online and written quizzes and homework: 20-30%  2-3 Midterm exams: 40-50%  Comprehensive final exam: 25-30% |
| Additional Information |  |

Please attach syllabi (including co-/pre-requisite and current working and master syllabi for Transfer Module courses).