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C&GE Approval Date: November 15, 2024

Board Approval Date: December 18, 2024

Semester Effective: Fall 2025

Mathematics (Math) 0570S Support for Calculus Readiness (0 unit)

Prerequisite: None

Corequisite: Math 1570 Calculus Readiness must be taken concurrently

Advisory: None

Hours and Unit Calculations:

32 hours lecture. 64 Outside-of-class Hours; (96 Total Student Learning Hours)

Catalog Description: A non-credit co-requisite support for Math 1570 Calculus Readiness. This course is intended to provide additional support for students who are concurrently enrolled in Math 1570. Emphasis will be placed on prerequisite math skills needed to be successful in Math 1570, as well as study skills, appropriate use of technology, and Just-In-Time review and remediation.

Type of Class/Course: Non-credit

Texts: This course will utilize the same textbook/access code that is being used with Math 1570.

Additional Required Materials: Calculator or any other technology/materials required in Math 1570.

Course Objectives:

By the end of the course, a successful student will:

1. Develop strong study skills to become independent, active learners
2. Demonstrate mastery of the mathematical skills necessary to complete the Math 1570 course
3. Utilize technology when appropriate

Course Level Student Learning Outcomes

1. Demonstrate mathematical concepts and skills needed for graphing parent functions and applying the unit circle and angle approaches to trigonometry using radian and degree measure.
2. Develop a successful student plan utilizing TC resources

Course Scope and Content:

Course Topics

- A. Real Numbers and their Properties
- B. Solving Equations

- C. Factoring and Simplifying Polynomials and Rationals
- D. Exponents & Logarithms
- E. Systems of inequalities and linear programming
- F. Functions and Graphs
- G. Rational and Radical Expressions
- H. Unit Circle & Trigonometric Identities
- I. Appropriate Use of Technology
- J. Study Skills

Learning Activities Required Outside of Class

The students in the class will spend a minimum of 4 hours per week outside of the regular class time doing the following:

1. Completing assigned reading from the textbook
2. Completing assigned homework problems and study activities
3. Watching instructional videos
4. Watching videos related to growth mindset and study skills
5. Review how to use technology to solve problems
6. Work on course-related topics in math lab/learning center or office hours

Methods of Instruction

1. Lecture and sample problems created or curated by the instructor
2. Videos that demonstrate how to utilize technology to solve select problems
3. Individual work with appropriate technology
4. Student presentations

Methods of Evaluation

1. Student Presentations
2. Problem-solving assignments or activities
3. Quizzes
4. Project
5. Discussions
6. Written summaries
7. Time spent in Math lab, Learning Center, or using TC tutoring services

Supplemental Data:

T.O.P. Code:	170100: Mathematics, General
Sam Priority Code:	E: Non-Occupational
Funding Agency:	Y: Not Applicable (funds not used)
Program Status:	Stand alone

Noncredit Category:	C: Elementary and Secondary Basic Skills
Special Class Status:	N: Course is not a special class
Basic Skills Status:	N: Course is not a basic skills course
Prior to College Level:	Y: Not applicable
Cooperative Work Experience:	N: Is not part of a cooperative work experience education program
Eligible for Credit by Exam:	No
Eligible for Pass/No Pass:	C: Pass/No Pass
Discipline:	Mathematics