

General Education Course Objectives and Learning Outcomes

Course Name: College Math

Course Number: MATH 1003

Submitted by: Leslie Bain

Course Name: Mathematics

COMMON COURSE OBJECTIVES AND STUDENT LEARNING OUTCOMES THAT ARE OR WILL BE LISTED ON THE SYLLABUS OF EVERY SECTION OF THIS COURSE:

| | |
|-----------------------------------|--|
| <i>Course objectives:</i> | MATH 1003 is a quantitative literacy course that focuses upon the mathematics of contemporary life. The course is designed to strengthen critical thinking skills and the ability to apply quantitative reasoning skills. |
| <i>Student learning outcomes:</i> | <p>Upon satisfactory completion of the course, students will be able to:</p> <ul style="list-style-type: none"> - Create and analyze graphical representations of data. - Use statistics appropriately to determine characteristics and values for normally distributed, symmetric, and skewed data (ranges, measures of center, etc.). - Understand and calculate the effects of interest on savings and expenditures. - Use numerical relationships to calculate various representations of a value. - Make informed mathematical conclusions from studies, surveys, and polls. - Understand the concepts of and calculate values of probability and counting. |

ADHE ACTS INFORMATION FOR THIS COURSE (IF APPROPRIATE)

| | |
|---|---|
| <i>ACTS Course number:</i> | MATH 1113 |
| <i>Copy the ACTS course objectives and learning outcomes:</i> | <p>General Description: Comprehensive mathematics course designed for general education core and for degrees not requiring college algebra. A strong emphasis should be placed on critical thinking, mathematical modeling, and technology. The majority of the course must include topics from general concepts of functions. Projects, group work, reading, and writing should be included.</p> <p>Expected Student Learning Outcomes: Student performances will include:</p> <ul style="list-style-type: none"> • Identifying problem-solving strategies and applying them to contemporary everyday problems, both in work and in personal lives. • Analyzing reports from media to determine completeness and accuracy noting assumptions both stated and unstated. • Critiquing public consumer and political information for better understanding, completeness, and accuracy. |

WHICH ATU GENERAL EDUCATION GOALS DOES THIS COURSE FULFILL? (NO MORE THAN TWO)

- Communicate effectively
 - o Written communication
 - o Oral communication
- ✓ **Think critically**
- Develop ethical perspectives
 - o Diversity
 - o Empathy
 - o Leadership
- ✓ **Apply scientific and quantitative reasoning**
 - o Scientific reasoning
 - ✓ **Quantitative reasoning**
- Apply the value of the arts and humanities

- Practice civic engagement

**DESCRIPTION OF HOW THIS COURSE MEETS THE GENERAL EDUCATION GOALS CHOSEN ABOVE
(TO BE INCLUDED ON THE SYLLABUS OF EVERY SECTION OF THIS COURSE)**

MATH 1003 addresses two General Education goals which are to think critically and apply quantitative reasoning. The course requires students to demonstrate these goals through homework, quizzes, exams and projects.