General Education Course Objectives and Learning Outcomes

Course Name:	College Math	Course Number:	MATH 1003
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Submitted by: Leslie Bain Department: Mathematics

Course Facilitator (Along with the department head, this faculty member helps facilitate discussions of assessment results and course commonalities among all instructors who teach the course): Leslie Bain

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

These must include the appropriate general education goal(s) and their associated learning outcomes (see below), as per the faculty handbook section on syllabi.

Course objectives:	MATH 1003 is a quantitative literacy course that focuses upon the mathematics of contemporary life. The course is designed to strengthen the ability to apply quantitative reasoning skills.
Student learning outcomes:	Upon satisfactory completion of the course, students will be able to: 1) Create and analyze graphical representations of data. 2) Use statistics appropriately to determine characteristics and values for normally distributed, symmetric, and skewed data (ranges, measures of center, etc.) 3) Understand and calcuate the effects of interest on savings and expenditures. 4) Use numerical relationships to calculate various representations of a value. 5) Make informed mathematical conclusions from studies, surveys, and polls. 6) Understand the concepts of and calculate values of probability and counting.

ADHE ACTS INFORMATION FOR THIS COURSE (IF APPROPRIATE)

number:	MATH 1113
Copy the ACTS course objectives and learning outcomes:	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. Expected Student Learning Outcomes: Studen performances include 1)Identifying problem-solving strategies and applying them to contemporary everyday problems both in work and in personal lives, 2)Analyzing reports from media to determine completeness and accuracy noting assumptions both stated and unstated, 3)Critiquing public consumer and political information for better understanding, completeness, and accuracy.

WHICH ATU GENERAL EDUCATION GOALS DOES THIS COURSE FULFILL?

(Note: Courses will be assessed via the GE goal rubrics listed on the GE assessment webpage. Every goal has a separate assessment based on the learning objectives listed below.)

□ Communicate effectively

☐ Written communication

Learning Outcomes:

- 1. Present written thoughts in a cohesive manner
- 2. Synthesize information into a collective argument
- 3. Use formal grammar and mechanics

☐ Oral communication

Learning Outcomes:

- 1. Verbally present thoughts in an organized manner
- 2. Speak with confidence on a variety of subjects
- 3. Adapt to multiple audiences including a professional audience

г о /	Annly	ecie	entific and quantitative reasoning
		Le	arning Outcomes:
		1.	Identify hypothesis,
		2.	Classify relevant variables
		3.	Evaluate experimental design
		4.	Formulate reasonable explanations of natural phenomena based on observations of both quantitative and qualitative data
	\square	Qι	nantitative reasoning use mathematical formulae or processes in real world situations
		Le	arning Outcomes:
		1.	Perform a quantitative analysis of a situation
		2.	Make a decision based upon the outcome of a quantitative analysis of a situation
		3.	Analyze information presented in a graphical format
		4.	Create a mathematical model of a real world situation
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Ц			value of the arts and humanities
		_	Outcomes:
			fy ideas represented in art, music, theatre, film, literature, or philosophy
			ideas in art, music, theatre, film, literature, or philosophy to the global context in which were created
			ret the global significance of works of art, music, theatre, film, literature, or philosophy to man experience
	Think	crit	ically
	Learni	ng C	Outcomes:
	1. Id	entif	fy an underlying argument
	2. M	ake 1	reasonable inferences from an argument
	3. As	sess	the quality of evidence
	4. Id	entif	fy the thesis and conclusions in an argument
	D1		
Ц	_	_	thical perspectives
			versity
			ng Outcomes:
	1.		entify examples of power and privilege
	2.		plain the impact of power and privilege in everyday life
	3.	cu	escribe personal beliefs, attitudes, and biases about people whose experiences, histories, ltures, and appearances are different than one's own
			npathy
	Le		ng Outcomes:
	1.		odel empathy
	2.	_	oply empathy to change behavior and build better relationships
			adership
	Le	arni	ng Outcomes:
	1.	Ex	hibit integrity and reliability in individual action and institutional activities
	2.	Pr	actice principle-centered leadership

	3. Demonstrate responsibility when interacting with new technologies and information
	ctice civic engagement
1. 2.	Recognize the potential for individual civic action to affect change
	Construct a personal vision of a civic pathway Lead organizations/projects in planning and implementing public participation that address local community needs, issues, and problems
THE GOAL	SSIGNMENT WILL BE SUBMITTED FOR THE GENERAL EDUCATION ASSESSMENT OF L(S) STATED ABOVE? Total requires an assessment submission of student artifacts. For more information, see the GE Assessment
	dresses a General Education goal which is to apply quantitative reasoning. The course requires students to demonstrate gh homework, quizzes, exams and projects.

Email completed form to the Director of General Education Dr. Erin Clair at eclair@atu.edu

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