

Math in a Contemporary Society, Math 155, Online  
Three Credit Hours  
Fall 2020 Course Outline  
Mary Baldwin University

Information About Myself: I am Dr. Christy Lowery-Carter (Dr. Lowery-Carter), your instructor for Math 155. I am Professor of Mathematics with Southside Virginia Community College and an adjunct instructor with Mary Baldwin University. There are several ways in which you can contact me. My home phone number is (434) 272-2384 and my email addresses are [cloweryc@marybaldwin.edu](mailto:cloweryc@marybaldwin.edu) and [christy.carter@southside.edu](mailto:christy.carter@southside.edu). Email is the best method to get in touch with me. However, if you need to speak with me on the phone, please contact me before 9 pm.

I hold a Bachelor of Science from Averett University with majors of Accounting, Mathematical Decision Science, Mathematics, and Management Science. Also, I completed my MAT: Math Education from Averett as well. I have taken eight graduate courses in mathematics and administration through Cambridge College. In December of 2008, I graduated from Liberty University with an Educational Specialist Degree in Teaching and Learning. I completed an Ed.D in Teaching and Learning at Liberty during the summer of 2012. For my dissertation, I am studied the effectiveness of traditional teaching techniques in an online learning environment.

I taught with the Halifax County Public School System from 2003-2006. I began teaching as an adjunct with Southside Virginia Community College in January of 2004 and accepted a fulltime position in August of 2006. I have an adjunct with Mary Baldwin University since the summer of 2007.

Course Description: Students will investigate mathematical topics in relationship to life in contemporary society. The course will emphasize quantitative reasoning in the context of application, focusing on mathematical modeling and critical analysis of real-world problems. Topics to be covered may include basic probability and statistics, mathematical modeling, finance, voting and apportionment, and logic. Supplemental topics may be introduced depending on the interests of students enrolled in the course.

Course Goals and Objectives: Students will examine current and recent issues in society from a quantitative perspective, select and apply appropriate mathematical models to real-life situations, and engage in critical decision-making about issues surrounding mathematical models, critique quantitative information appearing in print and electronic sources, use a variety of mathematical functions including linear and exponential function to describe real-world situations, use concepts of probability and statistics in summarizing data and making decisions, and understand the process of deductive reasoning as used in mathematics.

Prerequisites: There are no prerequisites for this course.

Course Requirements:

- Textbook: Mathematical Ideas by Charles Miller, Vern Heeren, and John Hornsby Addison Wesley, 13<sup>th</sup> Edition. (9780321978264). You will receive information on the first day of class

to purchase MyMathLab, which will give you access to required assignments and the e-book. If you plan to use financial aid to make this purchase, you will need to purchase the book and access card from the bookstore.

- Calculator: A scientific calculator is required and a graphical calculator is optional. I would suggest the TI-30XIIS.
- Supplies: An abundant supply of pencils, erasers, and paper

Course requirements: On page three of this syllabus there is an outline of each week of class and the corresponding assignment. Within MyMathLab, you will be complete your homework and chapter assessments. You are required to earn a minimum score of 80 on each homework assignment to progress to the next assignment. I would highly encourage you to use the View an Example, Help Me Solve This, the embedded videos, and Ask the Instructor.

You will also be completing weekly discussion boards. Initial posts must be submitted prior to Thursday night at midnight and you will need to respond at least two additional times throughout the week.

Assessment: The homework problems you will be completing will count 40% of your grade, the tests will count 50%, and the discussion boards will count the remaining 10%. The grading scale is below

A	93-100	C+	77-79
A-	90-92	C	73-76
B+	87-89	C-	70-72
B	83-86	D+	67-69
B-	80-82	D	63-66
		D-	60-62
		F	59 and below

No make-up or late homework or tests will be accepted. Make-up tests are given only in case of extenuating circumstances (hospitalization, death in family, etc.). You must have complete 50% of the course to be considered for an ET.

HONOR CODE: Mary Baldwin University operates on the proud tradition of the Honor System. Honor is a personal quality each student responsible for his/her own actions and fosters trust in one another and respect for the truth. The Honor System is based on three principles: integrity of one's word, respect for the property of others, and honesty in academic work. These standards are an integral part of life at Mary Baldwin; in becoming part of the Mary Baldwin community, each student willingly assumes an obligation and responsibility to uphold them.

Date	Sections to be Covered
August 24 – August 30	Sections 2.1 and 2.2 Discussion Board
August 31 – September 6	Sections 2.3 and 2.4 and Chapter 2 Test Discussion Board
September 7 – September 13	Sections 3.1 and 3.2 Discussion Board
September 14 – September 20	Sections 3.3 and 3.4 Discussion Board
September 21 – September 27	Sections 3.5 and 3.6 and Chapter 3 Test Discussion Board
September 28 – October 4	Sections 11.1, 11.2, and 11.3 Discussion Board
October 5 – October 11	Sections 11.4 and 11.5 and Chapter 11 Test Discussion Board
October 12 – October 18	Sections 12.1, 12.2, and 12.3 Discussion Board
October 19 – October 25	Sections 12.4 and 12.5 and Chapter 12 Test Discussion Board
October 26 – November 1	Sections 13.1, 13.2, and 13.3 Discussion Board
November 2 – November 8	Sections 13.4 and 13.5 and Chapter 13 Test Discussion Board
November 9 - November 15	Sections 15.1, 15.2, and 15.3 Discussion Board
November 16 – November 22	Sections 15.4 and Chapter 15 Test Discussion Board

\*All homework and test assignments are completed in MyMathLab, while Discussion Boards are completed in Canvas.