Precalculus with Trigonometry, Math 171, Online
Three Credit Hours
Fall 2014 Course Outline
Mary Baldwin College

<u>Information About Myself:</u> I am Christy Lowery-Carter (Dr. Lowery-Carter), your instructor for Math 171. I am a Professor of Mathematics with Southside Virginia Community College and an adjunct instructor with Mary Baldwin College. There are several ways in which you can contact me. My home phone number is (434) 572-4528 and the two email addresses you can contact me at are cloweryc@mbc.edu and 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 in August 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 been an adjunct with Mary Baldwin College since the summer of 2007.

<u>Course Description</u>: Students will study algebraic, trigonometric, logarithmic and exponential functions. The main emphasis will be on developing trigonometric functions and their properties, since they play an indispensable role in the modeling of physical phenomena and in the study of calculus.

<u>Course Goals and Objectives:</u> After completion of the course, students will have a more in-depth understanding of algebra. They will also be able to evaluate, simplify, expand, condense, and solve exponential and logarithmic equations. Students will have a working knowledge radians and degrees, the unit circle, right triangle trigonometry, graphs of trig functions, the fundamental trig identities, sum and difference formulas, multiple angle and product to sum formulas, law of sines, and law of cosines. Students will also understand how each of these apply to real world events.

<u>Prerequisites:</u> The prerequisite for this course is Math 159 College Algebra.

<u>Course Requirements:</u>
- Textbook: <u>Precalculus with Limits</u> by Ron Larson. Brooks/Cole Cengage Learning, 3rd Edition. However, this is purchased with a code from a website. The following link http://www.webassign.net/manual/WA_Student_Quick_Start.pdf will assist you in purchasing the e-book and access code. The course key is mbc 5567 5100.
- 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. We will not be covering the entire textbook this semester. Within BlackBoard under content, you will find the notes and suggested (not graded) odd homework assignments for each section within the book. You can complete the odd problems and check your answer in the back of the book if you like. Your graded work will come from the assignments you complete in WebAssign.

Assessment: The homework problems you will be completing in WebAssign will count 60% of your grade. You will be completing a test after each chapter of material that will count 40% of your grade. The grading scale is 100-97 A, 94-90 A-, 89-87 B+ 86-84 B, 83-80 B-, 79-77 C+, 76-74 C, 73-70 C-, 69-67 D+, 67-64 D, 63-60 D-, and below 60 F. 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 College 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	Chapters to be Covered
August 31 – September 6	Sections 1.1-1.3
September 7 – September 13	Sections 1.4-1.6
September 14 – September 20	Sections 1.7-1.9 and Chapter One Test
September 21 – September 27	Sections 2.1-2.3
September 28 – October 4	Sections 2.4-2.5 and Chapter Two test
October 5 – October 11	Sections 3.1-3.2
October 12 – October 18	Sections 3.3-3.4 and Chapter Three test
October 19 – October 25	Sections 4.1-4.2
October 26 – November 1	Sections 4.3-4.4 and Sections 4.1-4.4 test
November 2 – November 8	Sections 4.5-4.6
November 9 – November 15	Sections 4.7-4.8 and Sections 4.5-4.8 Test
November 16 – November 22	Sections 5.1-5.3
November 23 – November 29	Sections 5.4-5.5 and Chapter Five Test
November 30 – December 6	Sections 6.1-6.2
December 7 – December 12	Chapter Six Test

*All assignments for this course are completed in WebAssign. You will have access to the course on August 31th. It is imperative you do not fall behind on the weekly assignments, but you can work ahead.