

**Math 171 WA**  
**Precalculus with Trigonometry (Q) 3 s.h.**

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**Course Description:**

Algebraic, trigonometric, logarithmic and exponential functions are explored. 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. Included is a software project on modeling and problem solving. *\*Prerequisite: MATH 159, or equivalent.*

**Textbook:**

*Precalculus: Concepts Through Functions, A Unit Circle Approach to Trigonometry, 4th Edition*  
*MyLab Revision with Corequisite Support* FIFTH EDITION  
Michael Sullivan, Michael Sullivan III, Jessica Bernards, Wendy Fresh  
ebook ISBN-13: 9780135989104

**With MyLab Math access**

*Please note there is a free 2-week trial access granted, but after that you will need to purchase access. The semester is 14 weeks long.*

**Course Learning Objectives:**

- In this course we will explore the properties of and uses for:
  - Trigonometry
  - Exponentials
  - Logarithmic functions
- You will have the opportunity to develop your own project, with guidance.

**Readiness Check:**

There is a Readiness Check required for all students to take, to help you assess if you are ready for College Algebra. This is a required assignment that you must complete, although your score will not impact your grade (it is only graded based on completion).

**Grading and Assessment:**

Your final grade will be based on the following components:

Participation:	5%
Readings/Videos:	5%
Homework:	20%
Projects:	15%
Chapter Quizzes:	20%
Tests (3):	20%
Cumulative Final Exam:	15%

Your final grade will be determined according to the following grading scale:

A ≥ 93%	A- = 90 – 92	
B+ = 87-89	B = 83-86	B- = 80-82
C+ = 77-79	C = 73-76	C- = 70-72
D+ = 67-69	D = 63-66	D- = 60-62
F ≤ 59		

**Assignments:**

The Chapter 0 Homework and Readiness Check are both required to be completed within the first week of the semester, or as soon as you register if you add the class late. There is an option to have a two week

free trial period of the textbook and MyLab access so you can complete these two items before you purchase MyLab Math and the ebook. I highly recommend you do this option.

The Chapter 0 Homework is just to get you used to completing assignments on MyLab Math. There's no actual math involved, and this should take less than 10 minutes to complete.

The Readiness Check assesses your baseline mathematical knowledge. Likely, this will take about an hour. I will not accept all of the assignments for the course at once. Assignments and due dates are posted on Canvas and MyLab Math, as well as on the below schedule. I do allow late work, with permission, but I will not accept anything after Friday, August 20th unless you have an ET. There will be no exceptions to this policy. Most homework assignments should take about an hour, but they can be done in multiple sessions.

### Quizzes & Tests:

Throughout the semester, there will be six quizzes, they are equally weighted and all count towards your final grade. Quizzes will usually take about 15 to 20 minutes, can be done in multiple sessions, and may be attempted more than once.

Throughout the semester, there will be a total of three tests, they are equally weighted and all count towards your final grade. Test 3 is the same as the final exam. You are only allowed one attempt per test, though you can do it in multiple sessions.

All tests and quizzes are open book/open note, but you may not consult another person or non-textbook website.

**ET Policy:** I will consider ET requests for students with extenuating circumstances. You **must** have the support of your advisor to request an ET. Remember: ETs are not automatic. In order to qualify for an ET, you must have completed everything assigned in the first two weeks of the semester.

**Deadlines:** Late work will be subject to a late penalty. Tests and quizzes are **not** accepted more than one week late without permission. It is important to adhere to deadlines, especially those coming before a test or quiz to allow sufficient time for you to receive feedback. Assignment details are posted on Canvas.

**Course Schedule:** *Note there is always an option to work ahead if you have any summer plans.*

Full assignment details are available in Canvas.

Start Date	Module	Contains	Due (Fridays - 11:59pm)
May 17	Week 1	Chapter 0 Homework Elementary Algebra Review Chapter F: Foundations	May 21
May 24	Week 2	Chapter 1 Preview Quiz Sections P1.1 - P1.3, 1.1 - 1.5 Chapter 1 Review Quiz Chapter 1 Review Homework	May 28
May 31	Week 3	Chapter 2 Preview Quiz Section P2.1 - P2.5, 2.1 - 2.5 Chapter 2 Review Quiz Chapter 2 Review Homework	June 4
June 7	Week 4	Chapter 3 Preview Quiz Sections P3.1 - P3.6, 3.1 - 3.6 Chapter 3 Review Quiz Chapter 3 Review Homework	June 11

June 14	Week 5	Test 1 - Algebraic Functions (1 - 3) Project 1	June 18
June 21	Week 6	Chapter 4 Preview Quiz Sections P4.1 - P4.4, 4.1 - 4.4	June 25
June 28	Week 7	Sections P4.5, 4.5 - 4.6, 4.9 Chapter 4 Review Quiz Chapter 4 Review Homework	July 2
July 5	Week 8	Test 2 - Logarithmic & Exponential Functions (4) Project 2	July 9
July 12	Week 9	Chapter 5 Preview Quiz Sections 5.1 - 5.4	July 16
July 19	Week 10	Sections 5.5 - 5.6 Chapter 5 Review Quiz Chapter 5 Review Homework Chapter 6 Preview Quiz Sections 6.1 - 6.2	July 23
July 26	Week 11	Sections 6.3 - 6.7 Chapter 6 Review Quiz Chapter 6 Review Homework	July 30
August 2	Week 12	Chapter 7 Preview Quiz Sections 7.1 - 7.3 Chapter 7 Review Quiz Chapter 7 Review Homework	August 6
August 9	Week 13	Test 3 - Trigonometric Functions (5 - 7) Project 3	August 13
August 16	Week 14	Cumulative Final Exam	August 20 (no work will be accepted after this date until you have an ET)

Other important deadlines:

Drop without advisor approval: May 21

Drop with Advisor approval: May 28

Withdraw or change to P/NC: tbd

### **Honor System:**

All academic work at Mary Baldwin College is governed by the honor system. The honor system is what enables ADP students to complete exams at home and do college work outside a classroom.

Please read through the Honor Code here: <http://www.marybaldwin.edu/student/sga/honorcode/>

### **Accessibility Services:**

Any student with documented accessibility needs who feels they may need academic accommodations while taking this course, should first contact Dr. Carey Usher, Associate Provost ([cusher@marybaldwin.edu](mailto:cusher@marybaldwin.edu), 540-887-7064) or [Accessibility@marybaldwin.edu](mailto:Accessibility@marybaldwin.edu).

The Academic Resource Center: The ARC is your one-stop-shop for writing, math, and all other subject and studentship tutoring. Residential students can meet with tutors virtually or face-to-face in the Center for Student Success, on the first floor of Grafton Library. Online and remote students can work virtually with tutors on papers, assignments, and test-taking strategies. Appointments are scheduled through

TutorTrac ([tutortrac.marybaldwin.edu](http://tutortrac.marybaldwin.edu)). For more information, contact Dr. Carey Usher, Associate Provost ([cusher@marybaldwin.edu](mailto:cusher@marybaldwin.edu), 540-887-7064) or [ARC@marybaldwin.edu](mailto:ARC@marybaldwin.edu).

**MBU E-mail Addresses:**

Emails from the course Canvas site go automatically to your MBU email address. Remember that all students are required to activate their MBU-issued e-mail accounts. All questions concerning the course must be sent via your MBU email address or the Canvas Mailbox. Other email addresses are often caught in my spam filter.

Periodically throughout the semester, you will receive information about the course through your MBU email address. If you have questions about activating your email account or using the Canvas course site, please contact your instructor before the start of the semester.

For technical questions - Computer Help Desk at [support@marybaldwin.edu](mailto:support@marybaldwin.edu) or 540-887-7075 or <http://www.marybaldwin.edu/oit/help/>.