

# MTH 112—Trigonometry

## Fall 2019      CRN 20184

Instructor: Mike Storrs

Class Time: MTWRF 10:00-10:50am

Office: LC or WOH-129

Office Hour: M 9:00am

Class Location: WOH-120

Email: [storrs@linnbenton.edu](mailto:storrs@linnbenton.edu)

### Course Materials:

- MyOpenMath enrollment key (online and free! Get it from me)
- We will be using a **free online textbook** and online homework through MyOpenMath.com
- Graphing calculator (I will be using a TI-84, sorry but this is not free)

Course Description: MTH 112 introduces trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, right triangle trigonometry, complex numbers, and polar coordinates. It also includes parametric equations, vectors and conic sections.

Academic Outcomes: Upon completion of the course, you will be able to:

1. Calculate the exact (when possible) or approximate value of the six trigonometric functions using both radian and degree measure.
2. Solve for all of the side lengths and angles of a right or oblique triangle, using information given.
3. Graph trigonometric functions (emphasizing sine, cosine and tangent), and conic sections, transform their graphs, and state important features of their graphs.
4. Verify trigonometric identities and use them to solve trigonometric equations involving one or more trigonometric functions.
5. Perform calculations involving vectors and solve vector applications.

Grading Policy: Your grade in this class is based on the following:

3 Tests:	40%
Final Exam:	20%
Online Homework:	40%

Grades will be assigned as outlined in the scale below:

A	90 - 100%
B	80 - 89%
C	70 - 79%
D	60 - 69%
F	0 - 59%

A grade of Incomplete may be assigned at the discretion of the instructor under special circumstances. The student must have completed the majority of the course, been in regular attendance and passing the course prior to the "special circumstance".

Exams: We have three midterms and a final. All exams (including the final) will be given in our classroom and will have a time limit. I allow an "anything goes" two sided 3"x5" note card on all exams (including the final) but it must be handwritten. Exams must be taken on the scheduled day. If you miss an exam you will get a score of zero. Your grade on the final exam will replace your lowest midterm test score if you score better on the final than at least one of your other tests. The tentative test dates are listed on the lecture schedule. The date and time of the final will not change.

Online Homework: The homework exercises will be done online via the MyOpenMath.com website. This homework is open from day one but the assignments will "expire" the night before the test and will only be available for review after the test. You can earn extra credit (EC) on homework if you finish by an earlier date as listed on the calendar. All homework can achieve partial credit based on how much you finish. Zeros will be assigned for missing assignments. Use the Calendar feature on M.O.M. to clearly see the due dates for the homework.

To access your homework you will need to register as a new user at MyOpenMath.com. The site will ask you for two pieces of information:

1. The course ID: **51688**
2. The enrollment key: **Triangles everywhere**

Help: If you have questions, PLEASE come see me and ask! I work at the math help desk 30 hours a week in the Learning Center. Because of this I am one of the easiest teachers to find on campus. The Math Help Desk is a place where you can drop in and receive assistance with your math questions. You are welcome to come see me when I am there but keep in mind that I am obligated to keep our meetings at the help desk to just a few minutes because my job there is to provide help to all students. If you need more than that then we can try to set up an appointment to meet. There is also (free) tutoring available. Sign up at the Tutoring Center across from the Math Help Desk in the Learning Center. I will always post my notes from class on my website and I will post blank notes before class for you to print out. Finally, the homework site offers free video tutorials and a student form area.

Expectations: I expect you will be involved in class. This includes being present, asking questions and participating in discussions. You should come to class prepared. I expect you will be respectful of everyone in the class, in word as well as behavior. You may bring your laptop or tablet to class and use it to work on homework. Please keep the volume on mute.

Special Circumstances: Students who have any emergency medical information the instructor should know of, who need special arrangements in the event of evacuation, or students with documented disabilities who may need accommodations, should make an appointment with the instructor as early as possible, no later than the first week of the term. If additional assistance is required the student should contact the Office of Disability Services (ODS) at ext. 4789.

Statement from the Center for Accessibility Resources:

You should meet with your instructor during the first week of class if

- you have a documented disability and need accommodations,
- your instructor needs to know medical information about you, or
- you need special arrangements in the event of an emergency.

If you have documented your disability, remember that you must make your request for accommodations through the Center for Accessibility Resources (CFAR) Online Services webpage every term in order to receive accommodations. If you believe you may need accommodations but are not yet registered with CFAR, please visit the CFAR Website for steps on how to apply for services or call (541) 917-4789.

Statement of Non-Discrimination: Linn-Benton Community College is an equal opportunity educator and employer.

Academic Honesty: I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), you will receive a score of zero for that test/assignment and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration with a recommendation for disciplinary action.