

MTH 112 TRIGONOMETRY

Instructor: Zack Reed

Office Hours: *Albany (WOH-103):*

MW, 3:00–3:30 PM

F, 10:00–11:00 AM

Corvallis (BC-101):

MW, 8:00–8:30 AM

Email: reedz@linnbenton.edu

Term: Winter 2020

CRN: 30149

Class Times: MW, 11:00 AM–12:50 PM

F, 11:00–11:50 AM

Classroom: WOH-128

WE BEGIN OUR STUDY OF TRIGONOMETRY by developing functions out of the relationships between the angles and sides of right triangles. We'll learn about some useful properties of these functions and their graphs. We'll expand our attention to circles in the plane, and investigate radian measure, polar coordinates, conic sections, and finally vectors. Credits: 5; Prerequisite: MTH 111.

Student Learning Outcomes

1. Calculate the exact (when possible) or approximate value of trigonometric functions using either radian or degree measure.
2. Solve for all of the side lengths and angles of a triangle, given some information.
3. Graph trigonometric functions and conic sections; transform their graphs; state important features of their graphs.
4. Use trigonometric identities to solve equations.
5. Perform calculations involving vectors and use vectors in mathematical modeling.

Moodle

There's a Moodle site for this course. Grades and course notes will be available there.

Grading Policies

<i>Category</i>	<i>Percent of Grade</i>	<i>Grading Scale</i>
Homework	20%	A 90–100%
In-Class Activities	20%	B 80–89%
Tests	30%	C 70–79%
Final Exam	30%	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 most of the course, been in regular attendance and passing the course prior to the “special circumstance.”

Tests

We'll have two exams during the term. They are tentatively scheduled for the Fridays of Weeks 4 and 7. Please let me know as soon as possible if you must miss these days. The Final Exam will be Monday, March 16, at 10:00 AM.

Homework

Homework will be issued on Friday and due in class the following Friday. Homework may be turned in after the due date, but it will be penalized by a 20% deduction in score.

In-Class Activities

There will be an in-class activity almost every day. You may work with your classmates and ask me questions. Please bring notebook paper and a pen/pencil to class. Your lowest *three* scores on these activities will be dropped from your final grade. If you miss an activity, you can make up some of the credit (80%) by doing extra homework.

Recommended Materials

✦ Paper and pen/pencil for in-class activities

✦ Free Textbook:

<http://www.opentextbookstore.com/details.php?id=30>

We'll cover chapters 5–9 in this book.

✦ Graphing Calculator

Help

If you have questions, *PLEASE come see me and ask!* I have scheduled office hours but you're welcome to come in at other times too. Study groups are encouraged! Many students find that working with classmates is the best way to learn and understand the material.

At the Albany campus, the Math Café in WH-227 is open Mon.–Fri., between 8 AM and 5 PM. It's a casual environment with comfortable seating, free hot beverages, laptops for student use, and friendly staff. No appointment is necessary to get help, but they also offer success coaching by appointment, during which you can talk about:

- ✦ Study strategies (notetaking, learning online, time management schedule, etc.)
- ✦ Making a catch-up plan, to get up to date on assignments
- ✦ Preparing for an exam
- ✦ Better understanding and navigating online homework

Expectations

I expect that my students will be involved in class. This includes being present, asking questions and participating in discussions and group work (the instructor notes excellent attendance and attitude, and will sometimes “bump up” a borderline grade for such students).

I expect you will be respectful of everyone in the class, in word as well as behavior. Along these lines, I ask that you turn off and/or put away your cell phone, mp3 player, laptop, etc. during class—unless it is being used for an activity—so as to avoid causing a distraction.

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.

Special Circumstances

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the CFAR Website¹ for steps on how to apply for services or call 541-917-4789.

LBCC Comprehensive Statement of Nondiscrimination

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our Board Policies and Administrative Rules.² Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: https://linnbenton-advocate.symplcity.com/public_report

The instructor reserves the right to make changes to the syllabus/calendar at any time.



¹ <https://www.linnbenton.edu/current-students/student-support/center-for-accessibility-resources/>

² <https://www.linnbenton.edu/faculty-and-staff/administrative-information/policies/board-policies-and-administrative-rules/1000-series-the-college/board-policy-series-number-1015-nondiscrimination-and-nonharassment.php>