



Trigonometry

MTH 112

Fall 2021

CRN 22237

Class Times: Tuesday/Thursday 6:30 -8:50; (5 credits)

Class Location: BC-234

Instructor: Sharyn Abbes

Email: abbess@linnbenton.edu

Office Hours: Tues 5:30 - 6:15 or by appt ([zoom](#))

Course Description: *As a progression of geometry we will be working with trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, right triangle trigonometry, polar coordinates, vectors, and conic sections.*

Upon completion of the course, the student will be able to:

- Calculate the exact (when possible) or approximate value of the 6 trigonometric functions using both radian and degree measure.
- Solve for all of the side lengths and angles of a right or oblique triangle, using information given.
- Graph trigonometric functions (emphasizing sine, cosine and tangent), and conic sections, transform their graphs, and state important features of their graphs.
- Verify trigonometric identities and use them to solve trigonometric equations involving one or more trigonometric functions.
- Perform calculations involving vectors and solve vector applications.

Prerequisites: MTH 97 (or equivalent)

MTH 111 College Algebra (or equivalent) with a grade of “C” or higher

Required Materials:

- We will use a free online textbook and online homework (MyOpenMath)
- Scientific Calculator (not on your phone)
- Regular access to the internet to complete homework

Grading and Assessment:

Your grade will be based on the following:

| | |
|----------------------------|-----|
| Homework | 15% |
| Daily check ups (in class) | 15% |
| Tests (3 in class) | 45% |
| Final (cumulative) | 25% |

Grading Scale:

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

Class Attendance:

Please come to every class on time. Please let me know ahead of time if you cannot come. Coming late or leaving early disturbs me and your classmates, so please commit to being in the class for the whole time.

COVID precautions:

Masks (not face shields alone) covering your nose and mouth are required when you are in any building on LBCC campus. For this reason, I will not be permitting eating in class (you may go outside the building to eat). If you need to have a beverage, please be quick (< 5sec) about taking sips when you are in the classroom. If you sneeze or need to blow your nose, please exit the classroom to use the bathroom (or go outside) and remember to wash your hands thoroughly before returning to class. Every lecture will be recorded live and posted by the end of the day so if you are sick or having COVID symptoms, please stay home and utilize the posted recordings. Please refer to [LBCC COVID policy expectations](#) for complete guidance with this.

Homework:

Homework will be completed using MyOpenMath website. The homework is due before the next class. You have 8 late passes that let you extend the due date for particular homework by 48 hours.

Go to www.myopenmath.com and click on "Register as a New Student".

- Enter a user name and password of your choice, write it down.
- Enter your first & last name and your preferred e-mail address (can be your private address)
- Enter the Course ID: **126703** and the Enrollment Key: **MTH 112**

Daily Check ups:

At each class session (except when there is a test), you will be given one/two short problems to be done independently and without notes or text. It will be a problem using skills you learned in the previous class or on the current day. I will count your 10 highest check ups in your grade.

Tests:

There are 3 half-hour/45 minutes in class tests.

- You may use calculators on tests, including graphing and programmable ones, but you may not operate any device that has internet or wireless capability, including computers, pads, or phones. Tests are closed book, but you may bring a 3x5 index card (hand written on both sides) to help organize your thoughts. No worked out examples.
- Tests will take place in our classroom (please see the calendar for dates and times).
- If you miss one test, that score will automatically be replaced by your Final Exam score, so there should be no make-up tests.

Final:

There is a comprehensive final. This will be in class on Tuesday, Dec 7 from 6:30 - 8:30 pm. You should make every effort to contact me before the scheduled test time if there is any possibility that you may miss the final for an unavoidable reason. There are no make-ups for the final exam. You should not have more than two tests scheduled on a particular day. Let me know if you do.

HELP: If you have questions, PLEASE come to office hours or message me and ask! I have scheduled office hours but you're welcome to schedule other times with me too. Additionally, the [Learning Center](#) provides a [Math Help Desk](#)—a place you can "drop in" and receive assistance with your math questions. Study groups are encouraged! Many students find that working with classmates is the best way to learn and understand the material. I will do my best to keep all these resources updated on my moodle page.

Expectations: I expect that my students will be involved in class. This includes being present, asking questions and participating in discussions. You should be prepared for class. 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 SO AS TO AVOID CAUSING A DISTRACTION.** Exit quietly if you need to take a call during class. If you distract the class with a phone or a computer, you will be asked to turn it off or leave.

College Policies

LBCC Email and Course Communications

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email and your Moodle account through Moodle.

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.

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](#). Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: linnbenton-advocate.symplicity.com/public-report.

DISABILITY AND ACCESS STATEMENT:

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 the 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 Website](#) for steps on how to apply for services or call 541-917-4789.

Title IX Reporting Policy

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](#) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

Statement of Inclusion

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse.
(related to Board Policy #1015)

Public Safety/Campus Security/Emergency Resources:

In an emergency, call 911. Also, call LBCC Campus Security/Public Safety at 541-926-6855 and 541-917-4440.

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](#) available for free. We encourage people to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed. Visit them to learn more.

The instructor reserves the right to make changes to the syllabus/calendar at any time. Changes will be either announced in class, noted on website and/or syllabus, or sent through LBCC class email.