



# Trigonometry - MTH 112 - Spring 2022 Syllabus

## General Information

### Instructor Information and Availability

Instructor name: Michael Lopez

E-mail address: [lopezm@linnbenton.edu](mailto:lopezm@linnbenton.edu)

Zoom Drop-In Hours: TBD

Zoom link can be found in MyOpenMath in the "Drop-In Hours and Link" Modulo.

### Course Information (Two Sections)

Course name: MTH 112 Trigonometry (Online Course)

Section number: 02 and 04

CRN: 40105 and 44108

**Scheduled time/days: Online. We do not have class meetings.**

Number of credits: 5 credits

### Prerequisites:

MTH 111 College Algebra or equivalent with a grade of "C" or better.

### Course Materials (Don't Purchase Anything!)

- Regular Access to a computer and the internet
- Register for MyOpenMath a free online math platform (directions below)
- Scientific Calculator (Use [www.desmos.com](http://www.desmos.com))

### Registering/Enrolling in MyOpenMath (Read carefully!)

- Go to [www.myopenmath.com](http://www.myopenmath.com)
- Click on "Register as a New Student"
- **Use your student ID (X...) number for your User Name!**
- Choose and confirm a password, one you will not forget
- **Enter your first and last names, and your LBCC email**
- Enter the Course ID: **140930**
- Enter the Enrollment Key: **MTH112Sp2022**

## Course Description

MTH 112 introduces trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, right triangle trigonometry and polar coordinates. Includes vectors, and conic sections.

## Student Learning Outcomes

- 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

## Grading

Assessment Percentage Breakdown: (Grade totals can be found in MyOpenMath)

35% Online Homework MOM

30% Write-Ups (uploaded written homework)

30% Three Exams (Each Exam is worth 10%)

5% Quizzes

Letter Grade	Percentage	Performance
A	90-100%	Excellent Work
B	80-89%	Good Work
C	70-79%	Average Work
D	60-69%	Poor Work
F	0-59%	Failing Work

“P” or “NP” will NOT be given in this class. 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 participation and passing the course prior to the “special circumstance.”

## Late Assignment Policy

MyOpenMath (MOM), the online homework, you have four late passes to use at your

discretion. A late pass opens an assignment up to 48 hours. **No extensions/late passes on Write-Ups, Quizzes or Exams.**

## **Assessment Details**

### **Online Homework**

For online homework we will be using MyOpenMath (MOM). Online Homework will be covering Chapters: 7, 8, 9, 10, and 12, from the online text: OpenStax Algebra and Trigonometry, Algebra and Trigonometry. OpenStax CNX. May 18, 2016.

Specific sections will be due at the end of each week, Sundays at 11:59 PM. You have 5 attempts per problem. Don't waste them!

Success in a math class goes hand-in-hand with completing the homework assignments. I find that students who succeed in this course are the students who are staying on top of their homework and asking questions. So please do start on these as soon as possible.

### **Write-Ups**

You will have to complete four write-ups this term, the lowest write-up will be dropped. You have about 2 weeks to complete a write up and they are always due on a Friday by 11:59 pm (see calendar of due dates). This is a hard deadline and I do not accept any write-ups by email. They must be submitted as a PDF in MyOpenMath (MOM) by the due date and time.

The write up will include: each question written (or typed) out fully, all steps--including the algebra necessary to solve it, appropriate explanation of the process and the answer clearly identified. It should be written so that anyone in MTH 112 would be able to easily follow and understand your solution. Write-Ups will be graded on following instructions, correctness, presentation, readability, and the communication of your solution. Your grade is heavily weighted on communication and explanation of the solution. In other words, an incorrect but well-explained solution can give the student most of the points/credit. Similarly, a correct solution without explanation can lose most of the points.

**Be prepared to upload your completed work as a PDF (only as a PDF will it be accepted).** Please be sure items are numbered, questions are fully written out, and pages are in order. One single combined document for each assignment. Each assignment will be uploaded into MOM, unless prior approval by the instructor or with authorized accommodations.

## Exams

You will have three exams in this course. Exams I and II must be submitted by Friday of Weeks 4 and 8, respectively, by 11:59 PM in MOM and a Final Exam (Exam III) that must be submitted by 11:59 PM on Tuesday of Week 11, Final's Week. (see calendar of due dates). These are hard deadlines and I do not accept any Exams by email. They must be submitted as a PDF in MyOpenMath (MOM) by the due date and time. Successful students seem to turn these in well before the deadline.

## Quizzes

Timed Quizzes will **only** be on Wednesdays, open from 12:01 AM until 11:59 PM that day. The quizzes will cover the prior week's online homework. Your lowest two quizzes will be dropped from the gradebook. So if you accidentally or intentionally miss a quiz, that may be the one that will get dropped, but I don't reopen quizzes for any reason.

## Campus Resources

### Math Support Services

The following link provides the hours for face to face math support and the hours and zoom link to the virtual math support. You don't need to be in a face to face class to use the face to face math support or vice versa.

Math Support Link: <https://www.linnbenton.edu/student-services/library-tutoring-testing/learning-center/math-support.php>

### Class Discord Channel

Join the MTH 112 Discord to interact with other students taking this course, great for working on online homework and Write-Ups! This is for student interaction and for you all to help each other, this is not meant for communication with the instructor, but the instructor will be observing the channel.

Link can be found in MyOpenMath in the Resources Modulo.

### Learning Center Discord Server

Here is LBCC's Discord Server, great for your other classes as well.

<https://discord.com/invite/geMqSqV>

## Tips for Success in This Class

Three amazing tips your instructor can give you to be successful in this course:

- Start your assignments as soon as possible, don't wait to the last minute.
- Do your best to complete all the assignments
- Take advantage of my Drop-In hours or schedule an appointment when necessary (if office hours don't work for you)!
- Remember I am your #1 resource!! I expect you to have questions for me.

## **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.

#### **Guidelines for communication**

Email is the best way to get a hold of your instructor, [lopezm@linnbenton.edu](mailto:lopezm@linnbenton.edu), for any concerns, administration, or any non-math problem related questions. If you email your instructor, remember to use your LBCC provided email.

You may use the "Message Your Instructor" for any problems in MyOpenMath.

Your instructor is willing and recommends communicating through Zoom whenever possible. Again, discord is for communicating with your fellow MTH 112 peers, not for communicating with your instructor.

#### **Conduct**

You are held accountable to the [Student Code of Conduct](#), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

#### **Disability and Access Statement**

LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in the class, please talk to your instructor as soon as possible to discuss your needs. 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 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.

## 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.

## 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.

## Changes to the Syllabus

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Moodle Announcement, through LBCC e-mail, and/or by MyOpenMath Announcement.

- Week 1: Sections 7.1(A) and 7.1(B)
- Week 2: Sections 7.2(A) and 7.2(B)
- Week 3: Sections 7.3 and 7.4
- Week 4: Sections 8.1(A) and 8.1(B) (Exam I due by Friday 11:59 PM)
- Week 5: Sections 8.2 and 8.3
- Week 6: Sections 9.1 and 9.2
- Week 7: Sections 9.3 and 9.5

- Week 8: Sections 10.1 and 10.2 (Exam II due by Friday 11:59 PM)
- Week 9: Sections 10.3 and 10.8
- Week 10: Sections 12.1
- **Final's Week: (Final Exam due by Tuesday 11:59PM)**

For all due dates (tentative), please read "MTH 112 Calendar of due Dates"