Trigonometry, MTH 112, CRN 32140 Syllabus

# General Information

## Instructor Information and Availability

Instructor name: Michael Lopez

Phone number: 541-917-4759

E-mail address: lopezm@linnbention.edu

Office hours: TBD (always available by appointment)

Office number: WOH-108

## Course Information

Course name: Trigonometry

Section number: 03

CRN: 32140

Scheduled time/days: **Tuesday & Thursday 1 PM – 2:50 PM; and Friday 2 – 2:50 PM**

Number of credits: 5 credits

Classroom: WOH-128

### Prerequisites:

MTH 111 College Algebra or equivalent with a grade of “C” or better

## Course Materials

Required:

* Regular access to a computer and the internet
* Scientific Calculator
* Notebook: 3 ring binder, filler paper, writing material, etc
* We will be using a FREE opensource textbook and software

Optional:

* Highlighters and colored pencils.

# Enrolling in the Class Software: MyOpenMath (MOM)

1 Go to www.myopenmath.com

2 Click on “Register as a New Student”

3 Enter a user name, use your student ID number

4 Choose and confirm a password, one you will not forget

5 Enter your first and last names, and your LBCC or OSU e-mail address

6 Enter the Course ID: **61283**

7 Enter the Enrollment Key: **MTH1121PM**

## 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.

## Student Learning Outcomes

1. Calculate the exact (when possible) or approximate value of the 6 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

# Class Policies

## Behavior and Expectations

Do come to class with a positive attitude. I expect you to fully participate in class activities and to be on task and focused. I do expect some minimal side conversations to happen. You can expect me to challenge you. Expect to struggle and not understand a topic at the get go. Let yourself be okay with not knowing the answer.

I do expect you to have tons of fun in this class.

Most importantly, I expect that we will treat everyone with respect and attempt to understand someone else’s view point that may differ than our own.

You are held accountable to the [Student Code of Conduct](https://www.linnbenton.edu/current-students/administration-information/policies/students-rights-responsibilities-and-conduct), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct.

## Guidelines for communication

I will be using LBCC emails and MyOpenMath (MOM) for communication, I highly recommend that students check those frequently.

## Use of cell phones

No cell phones during class unless otherwise stated or by instructor approval. Cell phones should be out of sight and put away. If your cell phone becomes distractive, you will be asked to leave class.

## Attendance/Tardiness Policy

Your regular attendance and thoughtful participation in class are essential for your success in learning mathematics. If you are unable to attend class, please let your instructor know ahead of time either in person or by email. Students are responsible for any material, updates, or other information covered during class. In addition, students should expect to log into MyOpenMath several times each week to check for announcements, study course materials, and complete online homework.

## Testing

In this class, we will have two tests, and a cumulative final exam.All tests (including the final) will be given in our classroom.  Tests must be taken on the scheduled day.

If you miss an exam you will receive a zero for that exam, there are no retests or make-up exams. However, one test grade may be replaced by the final exam score, up to a maximum of 80%.

The tentative test dates are listed on the course calendar (weeks 4 and 8, respectively).

**Final Exam on Tuesday, March 17, 2020, from 2:30 PM to 4:20 PM.**

**GRADESCOPE:** I use an online grading platform called Gradescope. Exams will not be passed back, but students will have access to them online. After the first exam, students will receive an email from Gradescope to their LBCC email with directions on how to access their exams. More details will be explained prior to the first exam.

## Homework

Success in a math class goes hand-in-hand with completing the homework assignments. There will be an online homework assignment for each section we complete in class. You must get a MyOpenMath account and keep up with homework assignments online. There will be ***frequent*** homework assignments. Your instructor will also assign written homework assignments that must be turned in on paper. Homework is expected to be completed on time. You have 4 late passes for homework assignments that allow you to extend the due date of any assignment by 48 hours. Your homework grade will be calculated by taking the average of all homework assignments.

## In Class Activities/Projects/Quizzes

In class activities are problem sets worked in class (and may need to be completed outside of class) that may involve writing and reflection. There will be various, unannounced in class assignments, projects, or quizzes most days throughout the term.  There will be no make-ups for missed ICAs or quizzes. Your lowest two scores in this category will be dropped.

## Grading

Assessment breakdown of Total Grade:

40% - 2 Exams (20% each)

25% - Cumulative Final

15% - In Class Activities/Projects/Quizzes

20% - Homework

Final Grade Calculation:

|  |  |  |
| --- | --- | --- |
| 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 |

“Y” or “WP” will NOT be given in this class.

# Tips to Being Successful in This Class

**Attend Class & Read Ahead**: There is a strong link between good attendance and success in math courses. Attending class is more than just showing up, it is also means that you participate in the class discussions and activities. Look at the tentative calendar to see what we will be discussing and take some time before class to go over it.

**Complete your Homework on time:** Homework is your opportunity to practice. Your homework for the section we talk about in class should be completed before the following class. Completing your homework on time will help prepare you for the next topic

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**Get 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.  Visit our class in MyOpenMath for helpful links, class notes, handouts and other information.

**Check out the online notes:**  My daily class notes will be available through a link to One Note.  You will find the link in MyOpenMath.

**Form a study group:**  Your classmates are important resources for understanding and completing the homework.  Often a fellow student can explain things in a different way than your instructor. You gain a deeper understanding of mathematical concepts when you express them in your own words and explain them to someone else.  It is strongly recommended that you study together with other students in small groups.

**Use the Learning Center:**  [The Learning Center](https://www.linnbenton.edu/study/learning-center), WH226, is an excellent place to study and to get help with your homework.  Check out what the Learning Center has to offer:

* There is free wireless available in the Learning Center
* The relaxed atmosphere and table arrangement in the Learning Center provide a great location for study groups to meet and work.
* Instructional assistants are available to answer your math and graphing calculator questions.
* The Learning Center offers some free individual and small group tutoring in addition to the help desk.

## Basic Needs: Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Roadrunner Resource Center for support <https://www.linnbenton.edu/current-students/student-support/roadrunner-resource-center.php>, or visit us on the web [www.linnbenton.edu](http://www.linnbenton.edu/) under Student Support for Current Students. Our office can help students get connected to resources to help. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

# 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.

## 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**](https://www.linnbenton.edu/cfar) for steps on how to apply for services or call [**(541) 917-4789**](tel:5419174789).

## 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](https://linnbenton-advocate.symplicity.com/public_report/index.php/pid073717?) 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](http://www.linnbenton.edu/public-safety-emergency-planning):

In an emergency, call 911. Also, call LBCC Campus Security/Public Safety at [541-926-6855](tel:(541)%20926-6855) and [541-917-4440](tel:(541)%20917-4440).

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](http://lbccpublicsafety.mobapp.at/landing/Desktop) 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 MyOpenMath Announcement, or through LBCC e-mail.

# Class Schedule

* Week 1: Sections 7.1(A), 7.1(B), 7.2(A)
* Week 2: Sections 7.2(B), 7.3
* Week 3: Sections 7.4, 8.1(A), 8.1(B)
* Week 4: Sections 8.2, Review, **EXAM 1**
* Week 5: Sections 8.3, 9.1, 9.2
* Week 6: Sections 9.3, 9.5
* Week 7: Sections 10.1, 10.2, Review
* Week 8: Sections **EXAM 2,** 10.3
* Week 9: Sections 10.8, 12.1, 12.2
* Week 10: Sections 12.2, 12.3
* **Final: March 17, 2020, 2:50 PM – 4:20 PM**

# Changes to the Schedule

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