

## **MTH 112-Trigonometry Spring 2022 CRN 43635**

### **Instructor Information**

Instructor: Mary Campbell

Email: [Mary.Campbell@LinnBenton.edu](mailto:Mary.Campbell@LinnBenton.edu)

### **Class Meetings:**

Our class meets Tuesday and Thursdays from 10:30-12:20 and Fridays from 11:30 to 12:20.

Our classroom is located at the LBCC Benton Center in BC234

When you are in the classroom you are encouraged to wear a mask.

### **Office Hours:**

Office hours are after class on Tuesdays and Thursdays

Or by appointment, just ask!

**Remote Math Support:** Open from 9am - 7pm Monday through Friday, 11am - 3pm Saturday and 11 – 3 Sunday. (Those times may need to be adjusted once the term starts.) Located in Zoom at: <https://linnbenton.zoom.us/j/94627678411>

**In person drop in Math Help at the Benton Center:** Monday and Wednesday from 2:30 - 4, located in the Learning and Career Center (BC222)

### **Course Information**

Prerequisite: High School Geometry and MTH 111, or equivalent. Each with a grade of C or better.

Topics covered will include 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.

### **Course 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.

**Materials:**

We will be using an Open Educational Resource (OER) so you do not need to purchase anything but will need regular access to a computer and the Internet  
A notebook and writing implement  
Scientific calculator

**How your Progress will be measured**

**Tests:** There will be two tests and a comprehensive final in this course. Testing will be done in class. If you fail to take a test, you will receive a score of 0.

**Homework:** Success in a math class goes hand-in-hand with completing the homework assignments. When doing your homework, feel free to ask for help. The Math Help Desk personnel are available online. Form a study group with other members of the class. Talking with others about math is where learning begins!

Much of the homework will be completed and submitted electronically using MyOpenMath.

**Enrolling in the Class Software: MyOpenMath**

- 1 Go to [www.myopenmath.com](http://www.myopenmath.com)
- 2 Click on "Register as a New Student"
- 3 Enter a user name, I recommend using your student ID number
- 4 Choose and confirm a password, one you will not forget
- 5 Enter your first and last names, and your e-mail address
- 6 Enter the Course ID: 141457
- 7 Enter the Enrollment Key: MTH112

**Other Work/Activities:** These will be a combination of short, in class quizzes and assignments. They are to give you immediate practice and feedback on recent material. If you are not in class you will receive a grade of zero. These cannot be made up.

**Write-Ups:** Some topics are covered with hand written (and hand graded) solutions. You will hand in a careful, complete, written solution to these problems. The write-up will include: the problem statement, all steps necessary to solve it, appropriate explanation of the process, and the answer clearly stated. It should be written so that anyone in the MTH 112 class would be able to follow your solution. These will be graded based on correctness and on the communication of your solution.

**Grading:** Grades will be based on

2 tests	(20% each)	40%
Cumulative Final		20%
Other Work/Activities		15%

Write-Ups 10%  
MyOpenMath Homework 15%  
Final Grade: A: 90 - 100% B: 80 - 89% C: 70 - 79% D: 60 - 69% F: 0 - 59%

The 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".

Acts of academic dishonesty are regarded by the college as very serious offenses. Penalties will be the maximum permitted by the college.

LBCC maintains a policy of nondiscrimination and equal opportunity in employment and admissions, without regard to race, color, sex, marital and/or parental status, religion, national origin, age, mental or physical disability, Vietnam era, or veteran status.

The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill

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 this class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodation but are not yet registered with CFAR, please visit the CFAR website at [www.linnbenton.edu/cfar](http://www.linnbenton.edu/cfar) for steps on how to apply for services or call 541-917-4789