Trigonometry - MTH 112 - Fall 2020 Syllabus

General Information

Instructor Information and Availability

Instructor name: Nurideen Abubakari
E-mail address: abubakn@linnbenton.edu
Zoom Office Hours: TBD (You can definitely make an appointment anytime!)

Course Information

Course name: MTH 112 Trigonometry (online: no class times)
Number of credits: 5 credits

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
- Register for MyOpenMath a free online math platform (directions below)
- Scientific Calculator

Registering/Enrolling in MyOpenMath

- Go to www.myopenmath.com
- Click on “Register as a New Student”
- **Enter a user name, use your student ID number**
- Choose and confirm a password, one you will not forget
- Enter your first and last names, and your LBCC or OSU e-mail address
- Enter the Course ID: **89933**
- Enter the Enrollment Key: **F2020**

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

- 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)
20% Online Homework MOM
30% Write-Ups (uploaded written homework)
30% Three Exams (Each Exam is worth 10%)
10% Quizzes
10% Weekly Check-Ins

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 extends one of the assignments up to 48 hours from the due date, but you must use it before the assignment is actually due.

No extensions/late passes on Quizzes

All Write-Ups will be accepted up to 48 hours past the due date **with a 20% penalty**.

Exams must be taken on the scheduled date, unless prior approval has been granted by the instructor or has authorized accommodations.

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 with the exception of Week 11).

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 (Work in Groups)

You will have to complete several write-ups this term. About half of the solutions come from watching/listening to the lecture videos or class notes found on MyOpenMath (MOM) and the other half are problem solving type questions.

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 a MTH 112 class would be able to easily follow and understand your solution. Write-Ups will be graded on correctness, presentation, readability, and the communication of your solution. Up to one half of the grade is based on the communication and explanation of the solution. In other words, an incorrect but well-explained solution can still earn up to half of the points. Similarly, a correct solution without explanation can lose up to half of the points. I will drop the lowest write-up score from the gradebook at the end of the term.

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 Moodle and only in Moodle, unless prior approval by the instructor or with authorized accommodations. DO NOT EMAIL ME YOUR WRITE-

UP.

Exams

You will have three timed exams in this course. Exam I and II are on Fridays of weeks 4 and 7, respectively. Exam III will be on Wednesday of Week 10. There is a time limit to each exam and it will be open from 12:01 AM until 11:59 PM the day of the exam. Exam II will have mostly new material with a few questions from Exam I. Exam III will also have mostly new material, with a few questions from Exam I and Exam II.

Quizzes

Timed Quizzes will be on Wednesdays, open from 12:01 AM until 11:59 PM that day. These will be no more than 5 questions related to the previous weeks Online Homework. For example, your first quiz is on Wednesday of Week 2 and it will cover problems from 7.1A,B and 7.2A in MyOpenMath. I will drop your lowest 2 quiz grades from the gradebook. Quizzes will be in MyOpenMath (tentatively).

Campus Resources For Summer

The Math Desk and Math Café

https://linnbenton.zoom.us/j/94627678411

Learning Center Remote

The URL for the Learning Center Remote Resources site is https://www.linnbenton.edu/current-students/study/learning-center/hours-and-locations/index.php. This will have all relevant Zoom meeting links, hours, and updated information.

Study Groups

Form a study group. Your classmates are important resources for understanding and completing the homework. 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.

Tips for Success in This Class

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

- Stay on track by getting a jump start on the assignments

- Allow yourself to make mistakes, (I will make them too!)
- Zoom meet with me as much as possible, ask as many questions as you like

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 ahold of your instructor, abubakn@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 to communicate through Zoom when possible.

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 this class, please contact your instructor as soon as possible to discuss your needs. If you think you may be eligible for accommodations but are not yet registered with CFAR, please visit the **CFAR Website** for steps on how to apply for services. Online course accommodations may be different than those for on-campus courses, so it is important that you make contact with CFAR as soon as possible.

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.

"Tentative" 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, 8.3, **EXAM 1**
- Week 5: Sections 9.1, 9.2
- Week 6: Sections 9.3, 9.5
- Week 7: Sections 10.1, 10.2 **EXAM II**
- Week 8: Sections 10.3 10.8
- Week 9: Sections 12.1, 12.2
- Week 10: Sections 12.3 **EXAM III**

For all due dates, please read "MTH 112 Calendar of Due Dates" word document.