Linn-Benton COMMUNITY COLLEGE

Spring 2019 MTH 112 Trigonometry CRN:43635

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Office Hours: Mon/Wed 10:30-11:30, Friday 8:30-9:30, or by appointment

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.
Prerequisites: MTH 97 (Practical Geometry) or equivalent AND MTH 111 College (Algebra) or equivalent, each with a grade of "C" or better.

When you complete this class, you 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

What do you need for this class?

- ALEKS access code
- Regular, reliable internet access for completing online homework assignments
- Scientific calculator

How will your grade be calculated?

Your grade will be determined by completing the different types of assignments detailed on the following page.

Homework

Completing the homework is critical to your success in this class. We will be using ALEKS, an adaptive online homework system, for our homework in this class. ALEKS will be accessed

through Moodle. You will need to purchase an access code to access the course. Each week, you will have specific topics you must learn the skills and demonstrate mastery by the deadline date and time. Your score at the time of the deadline will be recorded as a homework grade for that week. Students who finish their ALEKS work before the deadline can work on other topics in the course pie.

ALEKS Homework Guidelines

You should keep a notebook of loose leaf paper for your ALEKS homework. You are expected to work through each problem and then write up neat, readable solutions for your notebook. Include the original problem unless it is a lengthy word problem. This will give you a study reference before testing.

In Class Activities, Projects, and Quizzes

There will be various, unannounced in class assignments, projects, or quizzes most days throughout the term. There will be no make-ups or late assignments accepted for missed ICAs or quizzes. Your lowest two scores in this category will be dropped.

Tests

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 75%. The tentative test dates are listed on the course calendar.

Cumulative Final Exam

The cumulative final exam will be given in our normal classroom on Monday, June 10th 8am-10am.

Overall Grade

Your overall course grade will be calculated using a weighted average based on the following weights and will be rounded up to the nearest whole percent.

Category	**Percent**
ALEKS Homework	20%
ALEKS Pie	5%
In Class Activities /Projects/Quizzes	10%
Two Tests (20% each)	40%
Final Exam	25%

Your letter grade will be assigned based on following the scale.

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

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

What can you do to be successful in this class?

Attend Class: 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.

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

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, 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.

Class Policies

Attendance

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 Moodle several times each week to check for announcements, study course materials, and complete online homework.

Cell Phone Use

Cell phones should be out of sight and put away. If your cell phone becomes distractive, you will be asked to leave class.

Special Circumstances

Students who have any emergency medical information the instructor should know of, who need special arrangements in the event of evacuation, or students with documented disabilities who may need accommodations, should **make an appointment with the instructor as early as possible, no later than the first week of the term.** If additional assistance is required, the student should contact the Center for Accessibility Resources at 917-4789.

LBCC Comprehensive Statement of Nondiscrimination

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

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 Single Stop Office for support. SinglestopatLBCC@linnbenton.edu 541-917- 4877, or visit us on the web 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.

Statement of Inclusion

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. (related to Board Policy #1015)

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.

Tentative Course Calendar

See the attached document. The instructor reserves the right to make changes to the course calendar at any time.