Trigonometry Math 112   Internet Class   Winter 2020

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Course:
We will learn about trigonometric functions and their graphs, identities, inverse trigonometric functions, trigonometric equations, right triangle trigonometry, polar coordinates, vectors, and conic sections. Upon completion of the course, the student will be able to:
● Calculate the exact (when possible) and 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.

Required for this class:
● 11-week ALEKS 360 access code. This code will give you access to the ebook and the adaptive course software. Through our ALEKS class you have the option to order a loose leaf version of the textbook for an additional $25. However a paper version of the book is not required.
● Scientific Calculator. We use only scientific calculators for all exams.
● Access to a graphing calculator, a graphing calculator app on your phone (for in-class use but not on exams) or Desmos (for computer or tablet use). There is no need to buy a graphing calculator.

Requirements and Grades:
5%   ALEKS Whole Pie Percentage
20%   ALEKS Weekly Topics and Exam Reviews
15%   Written Work Assigned Weekly
40%   Midterm Exams (2 Proctored Midterm Exams)
20%   Final Exam (1 Proctored Final Exam)

All of your course grades will be kept in the ALEKS gradebook only.

Course Grades:
LBCC does not offer plus/minus grading. This class will have final course grades assigned according to the standard 90%, 80%, 70%, 60% grade cutoffs.
You must earn at least a C grade in Math 112 in order to move on to higher math classes for which Math 112 is a prerequisite.

Participation: The biggest reason why students fail to complete a math class is due to poor participation. If you put off working on math during the week, and you wait until the deadline, you will find it very difficult to finish the work and get caught up. Plan to spend at least one hour every day working on trigonometry. You will most likely need two or three hours almost every day. If you are someone who finds it hard to get motivated to do work then this is not the class for you. It will take daily discipline to complete trigonometry online.

Incomplete Grades:
An incomplete grade may be issued for a student who is making satisfactory progress (Grade of C or better) in the course, but who has failed to complete the final exam. Any student seeking an incomplete must discuss this option with the instructor and sign an agreement prior to the time when grades are issued.

ALEKS Adaptive Homework Platform and Ebook:
You will complete the majority of your assigned work through an online and adaptive program called ALEKS. You are required to purchase the ALEKS 360 access code through the bookstore or through the ALEKS website. It is through ALEKS where you will have access to an ebook and any videos or tutorials the ebook provides. It is rich in support if you use it well. You will access ALEKS through the ALEKS website. I have provided instructions for both options below.

    Access ALEKS through the ALEKS website
    Go to www.ALEKS.com or click on the ALEKS link in Moodle and sign in or create a new user account. You need the course code and you can use the free two-week access code to get started. You will need to pay for the code before the free two-week code expires.
    ALEKS Class Code: Q6JJA-9YAXM
    Free two-week access code: C4C13-0DD5B-E59E7-DD618

eBook:
Through the ALEKS site you will have access to the eBook **College Algebra with Trigonometry** 1st Edition by Miller and Gerken. The eBook contains videos and is a valuable resource. If you really want a paper copy, you can order a paper version of the text through ALEKS but really if you have ANY trigonometry book then you can study topics from that book, so there is no need to buy this exact paper book. Your ALEKS 360 access code gives you access to the adaptive learning software using the Miller book when you need explanations. Email me if you have questions about this.

Homework and ALEKS:
There are 133 topics in ALEKS to master in this class. You may find that you already have some topics mastered when you get into our ALEKS course. Each week there are topics assigned and the weekly deadlines are always Sunday at midnight. New topics will be added each Monday. In Moodle you will have weekly videos that I made and written assignments but you should be getting into ALEKS each day to work on topics. This is your main homework. If you master all the topics for a particular week then you will be able to work ahead or you can go back and master topics you may not have learned from a previous week. This ALEKS program is adaptive and customizes to each

student so you each will have a unique experience. If you have weekend plans that do not include homework then it is up to you to complete the ALEKS topics before the weekend. You have the freedom to decide when during the week to complete the assigned topics. However if you wait until Sunday to start learning the weekly topics you will very likely run out of time. The best plan is to work hard early in the week so you have time to get help and then finish up any last topics on Friday. Each week your goal is to learn 100% of the topics.

Missing ALEKS Deadlines:
If you do not complete your ALEKS work by the due date then you will lose points no matter why you missed the deadline. There are ten weekly deadlines that you will see in your ALEKS gradebook. No deadlines will be extended for ALEKS topics. Your goal is to always finish all the topics for a week, however, if you still have a few left then you just will move on to the next week's topics each Monday. ALEKS will present you with missed topics if they are critical to the week's work but we always need you working in the current topics first. In any week where you learn all of the topics, ALEKS will then open up all weeks and you can go learn topics you missed from previous weeks.

Written Work:
As often as possible, and most likely one or two times each week, you will be assigned problems to write up and turn in through Moodle so it can be graded. You will either scan and upload your written work or you will take a photo of your work and upload the photo. There may be a quiz in Moodle or in ALEKS during the week as well. These tasks will always be listed in Moodle so on Monday of each week it is important to check Moodle so you can plan your week. Late written work is not accepted. Moodle will lock at the due date so do not be late submitting work. It is never a good idea to be working right up against a deadline.

Midterm Exams Proctored at LBCC:
There are two midterm exams. You will take each exam in a proctored setting. If you are taking exams at LBCC then you will print a test ticket from Moodle and go to one of the testing centers. If you are not taking tests at LBCC then you must find another community college or library where exams are proctored. There is likely a fee for this service and any fees are your responsibility. It takes time to arrange for proctoring so you need to email me during the first week of class to let me know if you will be finding a proctor. **Exams must be taken by the deadline. At most one midterm exam can be taken after the deadline but will earn at most 80%.**

Midterm Exam Review Objectives in ALEKS:
Prior to each midterm exam you will see an Exam Review Topics objective open up in ALEKS. These are not new topics. These topics are the ones you should have already learned and the ones the test will concentrate on. They open up all together in one objective so you can focus on what you do not already know or review any topic conveniently. Under the Review option there is a filter so you can review any topic you previously learned.

Final Exam:
Your final exam is cumulative and will be taken during finals week. It must also be taken in a proctored setting. After week 10 you will see a Final Exam Review Topics objective open up in ALEKS. This contains all the topics that will be stressed on the final exam. These are not new topics. They are topics you should have already learned in previous weeks. If you learned them all then you will have nothing new to complete but all the topics will be in that objective and available for review. You can go and review the topics by using the drop-down filter under the Review setting.

Help:
- Ask questions by sending your instructor email.
- Log into one of the Zoom online student hours advertised by your instructor.
- Make an appointment to work with a FREE tutor in the Learning Center at LBCC.
- Talk with an instructional assistant at the math desk in the Learning Center.

Cheating:
If you cheat on an exam, you will receive a zero grade on the exam, and I will file an incident report with the Dean of Students. A second episode of cheating will guarantee an F grade for the course and more severe disciplinary action from the school. Copying written work from another student is cheating also. In those cases, you will earn no credit for the assignment or project and I will file an incident report. If you are having so many problems that you feel the only way out is to cheat, then you need to talk with me. I am here to help you succeed. There are ways to work things out for students who are willing to try.

Anyone With Special Needs? 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.

Nondiscrimination Statement: LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our Board Policies and Administrative Rules. Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806. To report: linnbenton-advocate.symplicity.com/public report.

Weekly Schedule: This course has a firm schedule. The exam deadlines will not change. This is not a "self-paced" course. If you do not stay on schedule it is extremely difficult to get caught up.

Weeks	Topics (See Weekly Topic list for detailed information.)
Week 1 Jan 6 - Jan 12	**The ALEKS Initial Knowledge Check is Due by Tuesday, January 7 at midnight. Students who do not complete the initial knowledge check by the deadline will be dropped from the class.** After this is completed then you can begin homework for the week. 16 Topics: Section 5.1, 5.2, and 7.1
Week 2 Jan 13 - Jan 19	18 Topics: Sections 5.3, 5.4
Week 3 Jan 20 - Jan 26	15 Topics: Sections 5.5, 5.7
Week 4 Jan 27 - Feb 2	Jan 27 and 28: 45 Exam 1 Review Topics **EXAM 1: Deadline Thursday, January 30** Jan 29 - Feb 2: After the exam, 8 Topics: Sections 6.1, 6.2, 6.3 (double angle identities)
Week 5 Feb 3 - Feb 9	17 Topics: Sections 6.3 (half-angle identities), 6.5, 7.1
Week 6 Feb 10 - Feb 16	14 Topics: Sections 7.2, 7.3, 8.1, 8.2
Week 7 Feb 17 - Feb 23	Feb 17 and 18: 39 Exam 2 Review Topics **EXAM 2: Deadline Thursday, February 20** Feb 19 - Feb 23: After the exam, 8 Topics: Sections 8.4 Geometry of Vectors and Components
Week 8 Feb 24 - Mar 1	10 Topics: Section 8.4
Week 9 Mar 2 - Mar 8	14 Topics: Section 2.2, 8.5, 11.1
Week 10 Mar 9 - Mar 15	12 Topics: Sections 11.2, 11.3
Finals Week Mar 16 - Mar 18	73 Final Exam Review Topics **Final Exam: Deadline Wednesday, March 18** The final exam must be taken anytime the testing center is open from Monday, March 16 through Wednesday, March 18.