MATH 1613, Trigonometry
Fall 2014

Instructor: Lee Ann Brown *Office:* MSCS 516 *Email:* brownl@math.okstate.edu *Phone:* 744-1807 **Office hours (MSCS 516):** Tuesdays, 2:30-3:20 pm Wednesdays, 1:30-2:20 pm Thursdays, 2:30-3:20 pm **Office hours at the MLSC (5th floor of the OSU Library):** Mondays, 2:30-3:20 pm **Virtual Office Hours:** Google Hangouts, to be announced	**Website for this course** Desire2Learn (Online Classroom): http://oc.okstate.edu **WebAssign (Homework)** www.webassign.net **WebAssign Technical Support** Toll free: 800-955-8275 **Technical Support** OSU IT Help Desk: 405-744-4357 (or Toll-free 1-877-951-4836) or help@okstate.edu

Overview of the Course

This online course includes the study of trigonometric functions, solution of triangles and applications to physical sciences.

Course Prerequisites

- ALEKSGOAL, with a minimum score of 50 or MATH 1513 with a minimum grade of C
- No credit will be earned for those with prior credit in MATH 1715 (Precalculus) or any course for which 1613 is a prerequisite.

Course Goals

Demonstrate the skills and competency necessary when working with trigonometric functions for further study in mathematics or sciences. This includes reading, understanding, and applying trigonometry in a variety of situations.

Course Objectives

- Graph trigonometric functions with transformations
- Manipulate and verify identities
- Solve trigonometric equations
- Solve both right and oblique triangles
- Solve application problems involving trigonometry

Textbook/Homework Access

Either

- ***Algebra and Trigonometry with Access (Looseleaf, Custom)** , 3rd Edition, by Stewart, Redlin, and Watson

or

- ***Enhanced WebAssign with e-book (Access code)**

*Note: The looseleaf textbook <u>cannot be sold back to the bookstore</u>. If you buy it through the OSU bookstore, it comes with a WebAssign student access code. You have the choice of buying ONLY the WebAssign access code, either through the student bookstore or directly from WebAssign when you register.

You should sign up for WebAssign right away. There is a 14-day grace period to enter the access code to continue doing homework.   Go to http://www.webassign.net and self-enroll.

- You will need a ***class key*** that corresponds to this section of Trigonometry. The class key for the online section of Trigonometry this semester is: okstate 3032 7658
- You will also need the ***student access code*** that comes with your textbook (or can be bought separately). See the note (*) above.

More Required Materials

- Colored pencils or pens (optional)
- **Calculator (required):** A graphing calculator is recommended, but a (non-graphing) scientific calculator may be used. It must be able to calculate trigonometric functions (sine, cosine, tangent) in degrees and radians, as well as inverse trigonometric functions. Cell phone calculators are not allowed. Only one calculator may be used on exams. ***Note:*** The Mathematics Department has a limited number of graphing calculators for student check-out. Go to MSCS 401, starting on the Tuesday of the first week of classes.

Lecture Presentations

Video presentations of mini-lectures are located in Desire2Learn (D2L) under the Contents tab. The videos are listed by week/chapter/section under the Contents tab. Each video covers one topic or one example problem, and average about 5 minutes in length. There are printable "Lecture Notes" that go along with each set of videos, to help you organized. It is suggested that you print these lecture notes before viewing the videos, so that hand-written

notes can be used to help with homework problems and for reviewing before exams.

Attendance Policy

You are required to log in to the Desire2Learn course website at least once each week, but it is recommended that you check the website several times each week. If you have not logged in during the first two weeks, you will be reported for non-attendance.

Grading Policy

Homework (scaled)	100 points
Discussion Board Postings in D2L (scaled)	100 points
Group Work (scaled)	100 points
Exams	500 points
	TOTAL 800 points

A: 90% or higher	B: 80-89.5%	C: 70-79.5%	D: 60-69.5%	F: 59% or lower
720-800 pts.	640-719 pts.	560-639 pts.	480-559 pts.	0-479 pts.

Homework

You will do all homework in a website called *WebAssign,* which also gives you access to the e-textbook. All homework deadlines are listed in WebAssign. The homework is typically due on Tuesdays at 11:59 p.m. You can submit each problem up to 5 times. At the end of the semester, the total of all WebAssign homework points will be *scaled* to **100 points** (your percentage × 100). The maximum number of points that can be earned for the semester is 100 points.   Homework will not be available after the due date for the assignment. Please **keep a copy of your written work** for every homework assignment so that you can review it later, or so that you can ask a question about it.

Discussion Board Postings

Each week, you will have an assignment to post to the discussion board. In addition, you are expected to contribute in a meaningful way to at least one of the discussions. Discussion board posts should be respectful, and should offer insight, ask questions, or offer help or guidance to other students. Simply replying with "I agree" or something similar does not contribute to the discussion in a meaningful way.   The weekly discussion posts are worth 10

points each. The total will be *scaled* to **100 points** (your percentage x 100).
Grading of discussion posts will follow the rubric below:

Criteria	Level 4 10 points	Level 3 8 points	Level 2 6 points	Level 1 0 points
Weekly Discussion	Student fully participated int he discussion and submitted any required links. Posts were respectful and the links completely. fulfilled the requirements.	Student participated int he discussion and submitted some of the links, but did not completely fufill the requirements. The posts may have been slightly off-topic or the links may not have fully met the requirements.	Student participated only minimally in the discussion or did not submit the required link. He/she may have submitted a link that did not address the required topic or was too general.	Student did not participate in the discussion board.
Overall Score	Level 4 10 or more	Level 3 8 or more	Level 2 6 or more	Level 1 0 or more

Group Work

Approximately once each week, students will be put into groups of 2-3 and a problem will be given to each group. Students must work together to solve the problem and submit the final solution, showing all the steps involved in getting to the final solution. One page that represents the final solution agreed upon by the group should be submitted using the "Dropbox" in D2L. Groups may wish to type their solution using an equation editor and/or drawing software, or to hand-write the solution and scan it to submit a copy. There will be an area in the discussion board for your group to communicate. Each group assignment is worth 10 points and will be graded using the grading rubric shown below.

Criteria	Level 4 10 points	Level 3 8 points	Level 2 6 points	Level 1 4 points
Solution	The work shows a correct solution, with all steps shown, along with diagrams if relevant. The solution shows a clear understanding of the steps involved in solving the problem.	The work may show a correct solution, but the steps that are shown contain one or more errors. The solution shows some understanding of the steps involved in solving the problem.	The solution may be correct or incorrect, but there is either no work shown, or the steps contain many errors. The solution shows little understanding of the steps necessary to solve the problem.	The solution is not correct and very little work is shown. The work that is shown shows a lack of understanding of the problem.
Overall Score	Level 4 10 or more	Level 3 8 or more	Level 2 6 or more	Level 1 0 or more

If a member of your group does not contribute to the solution, please inform the instructor. **No credit will be given to a group member who does not participate in solving the problem.**

Exams

There will be three 100 point exams and a 200 point final exam. The first

three exams will be based on material learned during the period between exams. The final exam is comprehensive, so it will contain material learned throughout the entire semester. Exams will be administered in-person, either on the OSU campus or through a proctor (see below). You will be required to show your work and all steps leading to the solution.   You will be given 1 hour and 15 minutes for each of exams 1, 2, and 3. For the final exam, you will be given 1 hour and 50 minutes. If you use a proctor, the exam must be taken on one of the two possible days listed in the table below.

	Exam 1	**Exam 2**	**Exam 3**	**Final Exam**
OSU campus (MSCS 514)	Sep. 18, 5:30-6:45 pm	Oct. 16, 5:30-6:45 pm	Nov. 20, 5:30-6:45 pm	Dec. 9, 5:30-7:20 pm
or				
Approved testing center	Sep. 17 or 18 (1 h 15 min)	Oct. 15 or 16 (1 h 15 min)	Nov. 19 or 20 (1 h 15 min)	Dec. 8 or 9 (1 h 50 min)

Proctors/Testing Centers

Exams for this course may be taken either on campus or at an approved testing center.   If you wish to take your exam with a proctor, please have your proctor download an approval form at http://asoutreach.okstate.edu/images/pdf/Proctor_Agreement.pdf. Proctor forms must be **submitted and approved** prior to Exam 1.   Note that acceptable proctors include university testing centers, a director of a company training program, or people in similar positions of authority. Proctors cannot be friends or relatives of the student. Proctors are subject to approval by the instructor and by the staff of the OSU Arts and Sciences Outreach.

Instructor Response

During the regular work week (Monday through Friday), I am frequently online and will check the discussion board at least once every day. The discussion board can be used to ask either me or your classmates for guidance in understanding the material and/or help in working homework problems. You will also have some assignments that require you to post to the discussion board. If you need to contact me privately, please send me an e-mail and include in the subject line "MATH 1613 **online**".   I will try to reply within 24 hours during the regular work week, or within 48 hours on weekends.

Make-up Exam Policy

Make-up exams will be given only in extreme circumstances, if documentation for the absence can be provided and is verifiable. Valid reasons for make-up exams include:

- University activities (field trips, research presentations, athletic teams, etc.)
- Military obligation
- Jury duty or other mandatory court appearance
- Serious illness or injury
- Serious illness in immediate family (parent, sibling, spouse, son, daughter)

If you believe a make-up exam may be applicable, please notify the instructor by e-mail at brownl@okstate.edu prior to the missed exam (if possible), informing the instructor of the reason for missing the exam. Notification *after* the exam will only be accepted in an emergency situation. If you know several days in advance that you will miss an exam (jury duty, athletics, etc.), it may be possible to take an *early* exam. You must provide **appropriate documentation** to verify the absence.

Incomplete Grade

The grade of "I" is given to students who satisfactorily completed the majority of the course work and whose work averages "D" or better, but who have been unavoidably prevented from completing the remaining work of the course. The conditions, including appropriate time limits, for the removal of the "I" are indicated on the official class roll by the instructor. A condition that the student must repeat the course in order to remove the "I" is not permitted. The maximum time allowed for a student to remove an "I" is one calendar year.

Academic Dishonesty/Misconduct

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627. Go to

academicintegrity.okstate.edu for a short video on OSU's academic integrity policy and additional information.

Office of Student Disability Services (015 University Health Services)
According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to www.okstate.edu/ucs/stdis/.

Syllabus Attachment
You are individually responsible for meeting university deadlines and for following university procedures. The general university syllabus attachment, containing much information of this nature, can be found on the Academic Affairs' web site: http://academicaffairs.okstate.edu/faculty-a-staff

"Netiquette"
Here are some guidelines for communication in this course:
- DO NOT USE ALL CAPS. It is equivalent to shouting when using electronic communication.
- Use humor/sarcasm carefully.
- If you feel someone has not treated you with respect, contact your instructor.
- Discussions should be kept to the current topic.
- Think about what you have written before posting it.
- Use correct grammar and proofread.
- Always show respect for your fellow students.