

MATH 1613, Trigonometry (Online) Fall 2018

<p>Instructor: Lee Ann Brown Office: MSCS 516 Email: brownl@okstate.edu Phone: 744-1807 Office Hours: M 2:30-3:20 p.m. T 10:30-11:30 a.m. W 3:30-4:20 p.m. R 2:00-3:00 p.m. at MLSC (5th floor OSU Library) F 3:30-4:20 p.m. All office hours are in MSCS 516, unless otherwise indicated. Please arrange other times by appointment.</p>	<p>Virtual Office Hours: Available by request Online Classroom Brightspace by D2L: online.okstate.edu WebAssign (Online Homework) www.webassign.net WebAssign Technical Support Toll free: 800-955-8275 OSU Technical Support OSU IT Help Desk: 405-744-4357 (or Toll-free 1-877-951-4836) or help@okstate.edu</p>
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About the Course

Course Description: Study of trigonometric functions and their inverses, trigonometric identities, solutions of triangles, and applications. Note that combined credit toward a degree for MATH 1513, MATH 1613 and MATH 1715 is limited to six hours.

Prerequisites: The required prerequisites are an ALEKSGOAL minimum score of 60 or MATH 1513 with a minimum grade of C.

Student Learning Outcomes

- Describe angle measure using radians and degrees.
- Construct and interpret graphs of trigonometric functions and their transformations.
- Solve equations involving trigonometric functions and their inverses.
- Identify properties of trigonometric functions. Such properties include, but are not limited to, domain, range, increasing, decreasing, one-to-one, even, odd, end behavior, extrema, asymptotic behavior, amplitude, and predictability.
- Apply trigonometric functions to model real world situations.
- Solve both right and oblique triangles.
- Verify and apply trigonometric identities including, but not limited to, Pythagorean sum and difference, double and half angle, reciprocal, and quotient identities.

Required Material

Textbook: It is NOT necessary to purchase a copy of the textbook since the online homework system (WebAssign) contains the e-book: *Algebra and Trigonometry*, Fourth Edition, by Stewart, Redline, and Watson.

Calculator: A calculator is required for this course. (Recommended: TI-83 or TI-84.) It must be able to calculate trigonometric functions (sine, cosine, tangent) in both degrees and radians, as well as inverse trigonometric functions. These calculators are **not allowed**: calculators with computer algebra systems or wifi, cell phone calculators, laptops or tablets. Some of the prohibited calculators include: TI-89, TI- 92, TI-Nspire. The OSU Mathematics Department

(located in MSCS 401) has a supply of TI-83 and TI-84 graphing calculators for students to use during the semester. Please check out a calculator as soon as possible, since supplies are limited. **Only one calculator may be used** on exams or other assignments.

WebAssign: This is the site for doing online homework. **It is necessary to purchase an access code for this website**, which includes use of an e-book. The access code may be purchased at the OSU bookstore, or directly from WebAssign. There is a 14-day grace period (during which you do not need to purchase the access code). The free access starts with the first day of the semester, so please sign up for WebAssign right away. Please use the same first/last names as listed on your OSU enrollment. For the username, use your O-Key username. Go to <http://www.webassign.net> and self-enroll.

To enroll in WebAssign, you need:

- **Institution name:** okstate
- **Class Key:** okstate 3121 3320

Note: If you have previously taken this course at OSU within the past 2 years, you can use your previous WebAssign account without purchasing a new access code.

If you need help getting started using WebAssign, there are videos available here: <https://www.cengage.com/services/product/ewa/general/student>

For *WebAssign Technical Support*, go to: <http://support.cengage.com/victoriaweb/primarypage> or call toll free, 800-955-8275.

You can check for WebAssign service outages here: <https://techcheck.cengage.com/status-history/112/12h>

Learning Resources

- **Lecture notes:** These are available in the online classroom (Brightspace by D2L). Go to: online.okstate.edu and log in using your O-Key username and password. The lecture notes accompany videos recorded by your instructor. To find them, go to a weekly module under the “Content” heading. Both the lecture notes and videos are located under “Learning Material.”
- **Videos:** The course website contains over 100 videos that were developed by your instructor. They are meant to be used with the lecture notes. It is recommended that you print the lecture notes and then watch the videos, writing solutions in the space provided in the lecture notes. Links to the videos are found in the weekly modules.
- **Instructor Office Hours:** Your instructor’s office hours are listed at the top of the syllabus. Other times are available by appointment. She is also available by email or the “Ask Your Teacher” feature in WebAssign.
- **Other Videos:** There are thousands (possibly millions) of videos on YouTube and other sources for a large variety of topics in mathematics, including trigonometry. Search using a keyword, such as a word(s) found in the title of the lesson or words from the problem itself. Ask your instructor for suggestions if you have difficulty identifying keywords.
- **MLSC (Mathematics Learning Success Center):** This is a free tutoring center located on the *fifth floor of the OSU Library*. Visit their website: www.math.okstate.edu/mlsc. They are open during the following hours:

MLSC Hours	
Sunday:	1:00 p.m. to 9:00 p.m.
Monday-Thursday:	9:00 a.m. to 9:00 p.m.
Friday:	9:00 a.m. to 5:00 p.m.
Saturday:	Closed

Course Requirements and Policies

WebAssign Homework: WebAssign is a website that will be used for online homework. Each assignment is due at 11:59 p.m. Each problem may be submitted up to 5 times. At the end of the semester, the total of all WebAssign homework points will be *scaled* to 150 points (your *percentage correct* \times 150), which is the maximum number of points that can be earned.

For questions about a homework problem, you can use the “Ask Your Teacher” feature in WebAssign. Please describe your thinking or what you have done to attempt the problem. **Keep a copy of your written work**, since it is helpful in locating errors.

Any correct answer submitted before the due date will receive full points. **Late WebAssign homework will be accepted with a 25% penalty, up to 5 days** after the due date. *Request an extension* by clicking the button in WebAssign. The extension will be granted automatically. Each correct answer submitted *after* the due date, but by the end of the 5th day, will receive the 25% penalty. (Note: Extension requests cannot be made until after the homework due date. At that time, an “Ask for Extension” button will appear by the assignment.)

Attendance Policy: You are responsible for meeting all deadlines, so it is recommended that you log in to the online classroom several times each week to keep up-to-date. Communication from your instructor will be done mostly through announcements posted in the online classroom (Brightspace by D2L) website and/or through emails, so it is important to check both regularly.

Written Homework: Written assignments are located in the course website and are due approximately once each week. They will require you to write full solutions (and show all work). Handwritten solutions should be scanned or photographed and then submitted to the dropbox (within Brightspace by D2L) before the deadline. You may seek help doing the problems, but **your submitted work must be your own and cannot be copied from another student, from a tutor, or from a website**. Each assignment is due at midnight in the dropbox on the date listed in the schedule. **Late homework is not accepted**. Each assignment is worth 15 points. At the end of the semester, the **ONE lowest written homework score will be dropped**. The total number of points possible in this grade category is 150 points. **Copying the work of another student, a tutor, or a website is not allowed and may result in academic misconduct/dishonesty sanctions**.

Exams: There will be three 100 point exams and a 200 point comprehensive final exam during the semester. **Exams will be administered on the OSU campus at the dates/times listed below or if you are unable to take tests on campus you can take tests through an approved proctor on the same dates** (see “Proctors/Testing Centers,” below). On each exam, you will be required to show your work and all steps leading to the solution. You will be given 50 minutes for each of exams 1, 2, and 3. For the final exam, you will be given 1 hour and 50 minutes. **All exams are given on the test dates indicated, regardless of how you plan to take the exams**.

	Exam 1	Exam 2	Exam 3	Final Exam
In-class exams (OSU campus)	Thurs., Sep. 20, 4:30-5:20 p.m. MSCS 514 (no fee)	Thurs., Oct. 25, 4:30-5:20 p.m. MSCS 514 (no fee)	Thurs., Nov. 15, 4:30-5:20 p.m. MSCS 514 (no fee)	Thurs., Dec. 13, 6:00-7:50 p.m. MSCS 514 (no fee)

Proctors/Testing Centers: Exams for this course must be taken on the dates listed above, either **on campus** or at an **approved college or university testing center**. On the OSU campus, tests can be taken at the University Assessment and Testing for a fee of approximately \$20. If you wish to take your exam with a proctor, please download the proctor agreement form in the course website (see the Syllabus mode in Brightspace by D2L), have it filled out by your proctor and then returned to your instructor. Proctor forms must be **submitted and approved** at least one week before the first exam. Note that acceptable proctors include **only college or university testing centers**, unless special permission is granted. All proctors are subject to approval by the instructor.

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

If you believe you need to take a make-up exam, contact your instructor Lee Ann Brown at brownl@okstate.edu to explain the reason for missing the exam. If you know in advance of the need for a makeup exam, you should contact her at least 3 days before the exam to ask for permission to take a makeup exam. In circumstances where notification cannot be given prior to the exam, **arrangements must be made within 24 hours of the missed exam** and the makeup exam must be taken *as soon as possible*, but no later than one week after the scheduled exam.

Exam Replacement Opportunity: You are allowed to replace ONE of the first three exam scores with your *percentage* score on the final exam *after* a 20-point deduction from the raw score. For instance, if your first three exam scores are 85, 78, and 63, and your final exam score is 160 out of 200 (or 80%), then you can replace the third exam score (the lowest, 63) with a score of 70 (calculated as follows: $160 - 20 = 140$; $140/200 = 70\%$). If this calculation results in a score *lower* than the lowest of your first three exam scores, then there will be no exam replacement. The final exam is mandatory and no other exam scores may be used to replace it.

Grading:

Grade Item	Points Available	Percentage of Grade
WebAssign Points (scaled)	150	18.75%
Written Homework (scaled)	150	18.75%
Exams	500	62.5%
Total	800	100%

Final grades will be determined as follows:

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

Instructor Email: During the regular work week (Monday through Friday), I am frequently online and will check my e-mail regularly. Please send e-mails to brownl@okstate.edu and include in the subject line “**Online Trig**”. I will reply as quickly as possible, but within 24 hours during the regular work week, or within 48 hours on weekends.

Academic Integrity

OSU is committed to maintaining the highest standards of integrity and ethical conduct. 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 altering academic records) will result in an official academic sanction. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination, or for the course, receiving a notation of a violation of academic integrity on your transcript, and/or being suspended from the University. You have the right to appeal the charge.

Students have the responsibility of upholding the academic integrity of this course and this university. Some instances of academic dishonesty/misconduct include:

- Copying the work of another student, tutor, or website
- Turning in work that is identical or very similar to others' work
- Working on an assignment with others when the instructor asked for individual work
- Getting questions or answers from someone who has taken an exam
- Inappropriate use of technology during an exam
- Inappropriately sharing or using the work of another student on an online assignment, quiz, or exam
- Having another student take an examination
- Using a false excuse to obtain an extension on a deadline

To read the entire Academic Integrity policy for Oklahoma State University, go to:

<https://stw.sp.okstate.edu/policies/Shared%20Documents/Academic%20Integrity%20Policy.pdf>

Incomplete Grade: Please refer to: <https://registrar.okstate.edu/FAQ-Incomplete-Grade-Students>

Office of Student Disability Services (SDS)

315 Student Union/405-744-7116 <http://sds.okstate.edu/>

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 SDS. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty has 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 to verify the existence of a qualified disability and identify reasonable accommodations.

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> and choose Faculty and Staff Resources, then the Syllabus attachment for the appropriate semester).

Note: Any changes in the syllabus will be communicated to you in writing by the instructor.