

TRIGONOMETRY, Math 1613 – CRN: 62928 Syllabus, Fall 2016			
<b>Instructor:</b>	David Sacco		
<b>Office:</b>	MSCS 412	<b>Office phone:</b>	744-2291
<b>Office hours:</b>	Tuesdays & Wednesdays: 11:30am – 12:10pm Other times are available by appointment.		
<b>E-mail:</b>	dsacco@okstate.edu Please identify your <i>course</i> and <i>section</i> in the subject line of your e-mail. For instance, “1613 student, MWF 10:30”.		

### Course Prerequisites

- ALEKSGOAL, with a minimum score of 60 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

- Solve triangles using trigonometric functions
- Solve application problems involving trigonometry
- Calculate values of the six trigonometric functions
- Sketch graphs of trigonometric functions with transformations
- Verify trigonometric identities
- Solve trigonometric equations

### Textbook/WebAssign Access

#### WEBASSIGN Access Code

- NOTE: WebAssign contains the e-book: *Algebra and Trigonometry*, Fourth Edition, by Stewart, Redline, and Watson. You do NOT need to purchase the textbook separately.

### Other Required Material

- A **graphing calculator** is highly recommended for this course, but a (non-graphing) scientific calculator may be used. 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**: cell phone calculators, laptops, handheld computers, calculators with wifi, built-in computer algebra systems, or ability to store PDF files (TI-89, TI-92, TI-Nspire, or similar calculators).* **Only one calculator may be used on exams or other assignments.** Please check with your instructor to determine whether your calculator is allowed. **Note:** The OSU Mathematics Department has a limited number of graphing calculators for students.

- **Lecture notes:** These are available in the online classroom (D2L). Go to: [online.okstate.edu](http://online.okstate.edu) and log in using your O-Key username and password. Find this course, then go to the “Contents” tab.

### Exams

There will be three 100 point exams and a 200 point comprehensive final exam on these dates:

<b>Exam 1:</b> Tuesday, Sep. 13	<b>Exam 2:</b> Thursday, Oct. 6
<b>Exam 3:</b> Thursday, Nov. 10	<b>Final Exam:</b> Thursday, Dec. 8, 12:00-1:50 p.m. in AGH 107

### Make-Up Exams

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, first contact your instructor to explain the reason for missing the exam. Then, if your instructor believes a makeup exam is appropriate, contact the **course coordinator, Lee Ann Brown**, by e-mail at [brownl@okstate.edu](mailto:brownl@okstate.edu) . You should contact her **well in advance (at least 3 days) of the exam** to ask for permission to take a makeup exam and to inform her of the reason for needing to miss the exam. In circumstances where the exam cannot be taken *early*, **arrangements must be made immediately after the missed exam** and the makeup exam must be taken **within one week** of the scheduled exam. If a makeup exam is allowed, a **penalty of up to 15%** may be assessed.

### Written Homework (50 points)

*Hand-written* homework assignments will be worth 10 points each and will be turned in at the beginning of class on the due date. These assignments will generally be announced a week in advance. You **must show work** on every problem. It is a violation of academic integrity to turn in work that is exactly the same as, or very similar to, the work of another student. Academic integrity violations may be subject to sanctions according to university policy.

The lowest TWO grades from written homework will be dropped at the end of the semester. After dropping the two lowest scores, the total will be **scaled to 50 points** (your percentage × 50). ***Late homework will not be accepted.***

### Group Work and Quiz Grade (100 points)

Group work assignments or quizzes will be worth 10 points each and will be given approximately once per week. Group work is not announced in advance.

#### ***Group work policies:***

- Group members **must be present for the entire class period**, and must **participate equally** in order to share the full credit on the assignment.
- Groups should consist of **two people** (three with permission of instructor); groups can change throughout the semester.
- Groups **may use their notes**.
- **Working with other groups is not allowed.**

- Group members are **not allowed to “split” the work**; each member must contribute to every problem.
- Groups **may ask the instructor for some guidance**, but should not expect a full explanation.
- Groups must **show work** on every problem.
- **One paper will be submitted** for the entire group.
- **Calculators are allowed**, but no other electronic devices (cell phones, tablets, laptops, etc.) should be used.
- Instances of **academic dishonesty** may be subject to sanctions according to university policy.

The TWO lowest scores from this grade category will be dropped at the end of the semester. After dropping the two lowest scores, the total will be **scaled to 100 points** (your percentage  $\times$  100). There is **no make-up** on group work assignments or quizzes.

### Attendance

There will be 50 points available for class attendance. You get **three “free”** absences. For every absence *after* the first three absences, **three** points will be deducted from the 50 point total. Your **instructor may count you absent** if you are not in class for the *entire* time period, awake and attentive, without distracting behavior (coming/going from class, talking, wearing headphones, texting, etc.). *Signing an attendance sheet for another student, or having a student sign for you, is a violation of academic integrity. Violators may be subject to sanctions according to university policy.*

### WebAssign Homework

[www.webassign.net](http://www.webassign.net); WebAssign Technical Support, toll free, 800-955-8275

You should sign up for WebAssign right away using the same first/last names listed on your official OSU enrollment. For the username, it is recommended that you use your O-Key username. The institution is *okstate*. There is a 14-day grace period to enter the access code, *starting with the first day of the semester*. Go to <http://www.webassign.net> and self-enroll.

- To enroll, students need a **class key** that corresponds to this section of Trigonometry. **The class keys are listed below:**

CRN Number	Meeting Days/Time	Instructor	WebAssign Class Key
62928	TR 12:30 p.m.	David Sacco	<b>okstate 7433 6976</b>

- Students also need the **student access code** that must be purchased.

WebAssign homework is due at 11:59 p.m., usually on a day your class meets. The due dates are given in WebAssign. 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 100 points** (your *percentage correct*  $\times$  100). The maximum number of points that can be earned for the semester is 100 points. For questions about a homework problem, use the “Ask Your Teacher” feature in WebAssign. Questions may also be brought to class to ask the instructor. Please **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 homework will be accepted with a 50% penalty**, up to 5 days after the due date. *Request an extension* by clicking the button in WebAssign. The extension will be granted

automatically as long as it is prior to the 5 day time limit. Each correct answer submitted *after* the due date, but before the 5<sup>th</sup> day, will receive the 50% penalty.

### Course Evaluation

Course grades will be determined according to the following distribution.

Group Work/Quiz Grade (scaled)	100 points
Written Homework (scaled)	50 points
Attendance	50 points
WebAssign Homework (scaled)	100 points
Exams	<u>500 points</u>
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.

### MLSC

There is free tutoring available in the Math Learning Success Center (MLSC), located on the *fifth floor of the OSU Library*. Tutoring for Trigonometry will be held in the computer lab. In addition, there will be weekly review sessions for Trigonometry. Details will be announced later. The MLSC is open during the following hours:

	<b>Tutoring and Computer Lab Hours</b>
<b>Monday-Thursday:</b>	9:00 a.m. to 9:00 p.m.
<b>Friday:</b>	9:00 a.m. to 5:00 p.m.
<b>Sunday:</b>	1:00 p.m. to 9:00 p.m.

**MLSC Online Tutoring:** Tuesday/Thursday, 6:00 p.m. to 9:00 p.m. (More information later.)

### Attendance, Courtesy, and Electronics Usage

Regular class attendance is expected. Common courtesy is expected. Here are a few things to remember:

- Be **on time** and be **attentive, remain in the room** the entire time (unless you are ill), and show courtesy to other students by allowing them to hear the instructor.
- **Only one calculator** may be used on quizzes, exams, or other assignments. Calculators must be approved (see graphing calculator requirements). **No other electronic devices** (cell phones, laptops, tablets) are allowed. Use of more than one calculator, or use of another electronic device, will be considered an act of academic dishonesty/misconduct and may result in a grade of 0 on the exam/quiz, or a grade of F for the course.
- **Do not use a cell phone** or other electronic device during class time. If this behavior persists, you may be counted as absent.

### 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 Integrity**

101 Whitehurst/405-744-5627, <http://academicintegrity.okstate.edu>

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 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.

### **Office of Student Disability Services**

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 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 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).

### **Additional Resources**

OSU Student Counseling Center	744-5472
OSU Counseling Psychology Clinic	744-6980
OSU Psychological Services Center	744-5975

**Final Note:** Any changes in this syllabus will be communicated to you in class by the instructor.