

MATH 1613 -009

Trigonometry
TR 6:45pm-8:00pm MSCS 445

Spring 2011

Instructor: bo-hyun Kwon

Office & Office Hours: MS 436, TR 3:20-4:30 pm or by appointment

Phone: (405) 744-2302

E-mail: bohykwon@math.okstate.edu

Website: Online Class Room: oc.okstate.edu(log in using your OSU email id and password)
The OSU syllabus Attachment for 2011 Spring semester is available at:
<http://osu.okstate.edu/acadaffr/aa/syllabusattachment-Spring.htm>

University Catalog Description: Prerequisite(s): 1513 or equivalent, or concurrent enrollment. Trigonometric functions, logarithms, solution of triangles and applications to physical sciences. No credit for those with prior credit in 1715 or any course for which 1613 is a prerequisite.

Course Objective Students will investigate triangles (right triangles) and circles. There will be an emphasis on gaining a deep conceptual understanding of topics through visual representations.

Some initial Comments: Together with Math 1513, this course serves as a prerequisite to Math 2144 (Calculus I). To prepare adequately for calculus, students enrolled in this course will need to actively participate in their learning and take full ownership of their understanding. Do not be a passive sponge!

Text: The book that will be used is Analytic Trigonometry with Applications, 9th edition by Barnett, Ziegler, and Byleen. Additionally, you will need a scientific calculator. The Mathematics Department loans (for free) graphing calculators for the semester (Details will be provided).

Course Requirements: The requirements for this course are as follows:

- Three 50-minute midterm exams, worth 100 points each, given on
 - Tuesday, Feb. 08;
 - Thursday, March 10;
 - Tuesday, April 19.
- 110-minute final exam, worth 200 points, given on Thursday, May 05 from 6:45 to 8:35 pm.
- Homework or quizzes, worth 100 points.
- Bonus points may be available from attendance, quizzes or other assignments. Bonus points cannot be made up.

Grading: The maximum total points available for students to earn for the course are 600. Preliminary cutoffs for the final course grade are listed below.

- 540 points (90%) guarantees an A in the course
- 480 points (80%) guarantees a B
- 420 points (70%) guarantees a C
- 360 points (60%) guarantees a D

Homework: Homework is assigned from every text section we cover. Homework is collected 12 times during the semester. Each assignment is worth 10 points, and your ten best scores determine your homework grade. Late homework is not accepted. If you miss turning in an assignment, that is the score that will be dropped.

Attendance Policy: It is expected that you will attend every class session, arriving **ON TIME** and staying for the entire class period. You are responsible for all material covered in class and all assignments. Twenty (20) bonus points are awarded for good class attendance:

- 0–2 absences: 20 bonus points;
- 3–5 absences: 10 bonus points;
- 6 or more absences: 0 bonus points.

Makeup exams: Makeup exams will be given only for very serious and unavoidable extenuating circumstances and **only** if you notify me before or as soon as possible after the missed exam.

Mathematics Learning Resource Center: OSU's Mathematics Learning Resource Center (MLRC), on the fourth floor of the Classroom Building, is available to help you succeed in this course. For more information about the MLRC and for operating hours, visit the MLRC website: <http://www.math.okstate.edu/mlrc>.

Drop Policy: The last day to drop the course with a partial fee refund is Friday, June 11. The last day to drop the course with an automatic grade of W is Friday, April 08. Your first two exams will be returned before this date. The last day to withdraw from all classes with an assigned grade of W or F is Friday, April 22.

Syllabus Attachment: OSU's Division of Academic Affairs posts the syllabus attachment at <http://osu.okstate.edu/acadaffr/aa/syllabusattachment-Sum.htm>.

Academic Integrity: 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 (F!), and being suspended from the University. Carefully read the OSU policy at academicintegrity.okstate.edu.

With regard to the homework in this course, you should note that you are encouraged to form study groups and discuss the homework with classmates. However, you must write up your homework solutions *yourself*. The following are not permitted before assignments are turned in:

- Showing your written homework solutions to another student;
- Reading another student's written homework solutions;
- Writing a solution to a homework problem jointly with another student and then both students copying that solution onto their own papers;
- Reading homework solutions written by faculty or students in other semesters and/or at other universities, including such solutions posted on the internet or in the instructor's manual.

Calendar: The following is a tentative calendar for our course.

Week of	Tuesday	Thursday
Jan. 11	Sec. 1.1	Sec. 1.2/1.3 [H.W 1]
Jan. 18	Sec. 1.3(Cont)/1.4	Sec. 2.1 [H.W 2]
Jan. 25	Sec 2.2/2.3	Sec. 2.3(Cont)/2.4
Feb. 1	Sec. 2.5[H.W 3]	<i>Review</i>
Feb. 8	EXAM 1 on Ch. 1 and 2	Sec. 3.1
Feb. 15	Sec. 3.2 [H.W 4]	Sec. 3.3
Feb. 22	Sec. 3.4 [H.W 5]	Sec. 3.5/3.6
March 1	Sec. 4.1/4.2 [H.W 6]	Sec. 4.3/4.4
March 8	Sec. 4.5 and <i>Review</i> [H.W 7]	EXAM 2 on Ch. 3 and 4
March 15	Spring Break	Spring Break
March 22	Sec. 5.1	Sec. 5.2/5.3[H.W 8]
March 29	Sec 6.1	Sec 6.2[H.W 9]
April 5	Sec 6.3/6.4	Sec 6.5[H.W 10]
April 12	Sec 6.6	<i>Review</i> [H.W 11]
April 19	EXAM 3 on Ch. 5 and 6	Sec 7.1/7.2[H.W 12]
April 26	Sec 7.3	<i>Review</i>
May 5		FINAL EXAM