The Course

Course Objective

Trigonometry is the field of mathematics concerned with the relationship between the angles and sides of a triangle. Applications range across all areas of science and date back many centuries. Specifically, the study of geography, astronomy, and engineering heavily rely on the tools of trigonometry. Trigonometric functions are used to model continuous periodic motion, and provide excellent examples of the fundamental principles of Calculus. For the university student, a strong foundation in trigonometry is crucial preparation for the study of calculus and higher mathematics.

Class Format

Each week you are expected to attend two lectures, on Mondays and Wednesdays from 1:30 p.m. to 2:20 p.m. in 101 Cardwell Hall. In addition, you will be expected to attend a recitation session on Tuesdays. There will be written homework assignments, online homework assignments, three midterm examinations, and a final.

Textbook


Calculator

Calculators will be permitted during the exams, but all work needs to be shown to earn full credit. For some of the exam and homework problems you may need the use of a calculator with keys equivalent to the following: sin, cos, tan, INV, and $y^x$. Most of the relevant calculations for homeworks can probably also be done using Google calculator.

Assignments

Written Homework

Written homework is due on Fridays by 5 p.m. starting Friday September 5 and is to be turned in to the appropriate box (with your recitation instructor name on the label) outside the math office in Cardwell Hall. These homeworks are assigned and graded weekly. Write your name, your recitation instructor's name and the class number (Math 150) on the top of the first page. Please write neatly and legibly, and present your answers in an organized and coherent form. **You must show work for every problem solved; a correct answer alone will not receive any credit! Absolutely no late homework will be accepted!** A selection of problems from the written homework will be graded and your assignments will be returned to you in your recitation section.

Your written homework grade is computed by adding your 10 best scores (out of 14).

Online Homework

Online homework is linked from the Canvas page under "Assignments". The online problem sets are due on Fridays at 11:00pm. You may attempt the online problem sets as many times as you want (prior to the due date) and you will receive your highest score over all your attempts.

Your online homework grade is computed by adding your 10 best scores (out of 13).

Midterm Exams

There will be three exams during the semester on the following **Thursday evenings from 7:15–8:15pm** (Room TBA):

- Exam 1: September 19
- Exam 2: October 17
- Exam 3: November 14

At each exam, you need to bring writing instruments (pens or pencils and an eraser), your KSU identification card, and a calculator. No books, cell phones, tablets, or laptops will be permitted. **You may also bring one sheet** of 8 1/2 by 11 inch paper, with whatever notes, equations or formulas you wish to write (handwritten on both sides).
Missed exams: If you expect to miss a midterm exam for a legitimate reason (illness or hospitalization, for example), please notify your instructor as soon as possible. If your instructor deems the absence excusable then your other exams will be weighted to make up for the missing one; otherwise your score on it will be zero. There will be no make-up exams. A grade of incomplete may be given to a student who has missed more than one midterm or the final exam, if verifiable circumstances warrant it. It is your responsibility to discuss the situation with your instructor should your personal situation suggest this as a possibility.

Final Exam

The final exam is on Dec 16 (Monday), 11:50am - 1:40pm, room TBA.

Grading

You may earn 750 points in this course: 100 points for each of the three midterm exams, 200 points for the final exam, 200 points for the homework, and 50 recitation points given by your instructor (typically based on attendance, class participation, quizzes, etc). Your recitation instructor will explain exactly how your recitation grade will be determined. Letter grades will be assigned for each exam, but these should be considered only as an indication of your progress.

Other Topics

Tips for Success

Generally, students perform best in mathematics classes when they work consistently. You must study this course every day. You are developing a skill; no one would expect to become good at tennis if he/she only played once a month. Trigonometry is a moderately difficult college math class. The difficulty of the material increases as the course progresses. Many students may think, after the first couple of lectures, that one can get away without studying constantly or coming to the lectures. Typically such an attitude is a recipe for disaster.

Keys to success:
- Before lecture, preview the relevant section of the text and attempt to work the assigned problems.
- After lecture, review the text more carefully, comparing it to the notes you took in lecture. Work all homework problems (before recitation!). While doing this, consult the examples in the text and carefully read the material explaining them.
- Before Exams, re-read the chapter(s) from the book and your lecture notes, and re-do old homework problems, as well as all problems from the textbook, which are similar to them. If additional sample exam problems are provided by your instructor, work on them too. Attend the Exam Review lecture.
- Visit your instructor during office hours and/or sit in a Help Session. Ask about poorly understood points as soon as possible.

Your recitation instructor will announce office hours during which you may seek help. In addition, help sessions are held Monday through Friday during the day in Cardwell Hall. Help sessions begin the second week of class. There will be a help session schedule with specific times posted across from the Math office in Cardwell and also on the Math website. Several instructors will be present to assist you. Tutors for most math courses can be located through the Mathematics Department or through numerous service organizations on campus.

Student Access Center and Classroom Accommodations

Students with disabilities who need classroom accommodations, access to technology, or information about emergency building/campus evacuation processes should contact the Student Access Center and/or their instructor. Services are available to students with a wide range of disabilities including, but not limited to, physical disabilities, medical conditions, learning disabilities, attention deficit disorder, depression, and anxiety. If you are a student enrolled in campus/online courses through the Manhattan or Olathe campuses, contact the Student Access Center at accesscenter@k-state.edu, 785-532-6441; for K-State Polytechnic campus, contact Academic and Student Services at polytechnicadvising@ksu.edu or call 785-826-2974.

Statement Regarding Academic Honesty

Kansas State University has an Honor and Integrity System based on personal integrity, which is presumed to be sufficient assurance that, in academic matters, one's work is performed honestly and without unauthorized assistance. Undergraduate and graduate students, by registration, acknowledge the jurisdiction of the Honor and Integrity System. The policies and procedures of the Honor and Integrity System apply to all full and part-time students enrolled in undergraduate and graduate courses on-campus, off-campus, and via distance learning. The Honor and Integrity System website can be reached via the following URL: www.k-state.edu/honor. A component vital to the Honor and Integrity System is the inclusion of the Honor Pledge which applies to all assignments, examinations, or other course work undertaken by students. The Honor Pledge is implied, whether or not it is stated: "On my honor, as a student, I have neither given nor received unauthorized aid on this academic work." A grade of XF can result from a breach of academic honesty. The F indicates failure in the course; the X indicates the reason is an Honor Pledge violation.

Statement Defining Expectations for Classroom Conduct

All student activities in the University, including this course, are governed by the Student Judicial Conduct Code as outlined in the Student Governing Association By Laws, Article V, Section 3, number 2. Students who engage in behavior that disrupts the learning environment may be asked to leave the class.