Math 1322 – Precalculus: Trigonometry
Fall 2014

Professor: Dr. Steven Klee
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Course Website: http://fac-staff.seattleu.edu/klees/web/m1322/
Class Times:
Section 01: TR 9:15-10:05 in PIGT 309
Section 02: TR 10:15-11:05 in PIGT 309
Office Hours:
Monday 2:00-3:30
Tuesday 2:00-4:00
Wednesday 12:30-2:00
or by appointment.
by Stewart, Redlin, and Watson

Course Objectives
The student who successfully completes Math 1322 will
• understand the six basic trigonometric functions as circular functions and functions of angles,
• be able to graph various trigonometric functions and understand the relationship between a
  graph and its functional representation,
• be able to use trigonometric functions to model and solve realistic problems,
• be able to solve equations involving trigonometric functions, and
• be able to derive trigonometric identities and be able to use basic trigonometric formulas and
  laws appropriately.

In addition to learning about trigonometry, the goals of this course as a mathematics course are to
improve your ability to
• develop further the ability to think abstractly and critically,
• improve the ability to communicate mathematically through writing,
• represent abstract concepts pictorially,
• use mathematics as a modeling and problem-solving tool,
• appreciate and use appropriate technology, becoming proficient with, but not dependent on,
  symbolic graphing tools or mathematical software.

Homework
Learning mathematics is like learning any other skill – it requires a lot of practice. This course
progresses very quickly, and it is not sufficient to spend one night per week working on math
homework. Because of this, homework will be collected every day according to the following rules:

1. Tuesday mini-homework: There will be a short mini-assignment consisting of 5-10 problems
   that will be collected every Tuesday. The purpose of these assignments is to make sure you
   understand the material that we covered during the previous week to make sure that you are
   prepared to learn new material during the current week. These problems will be graded for
   completion on a scale of 5 points.
2. *Thursday homework*: Every Thursday you will submit a more substantial homework set from which some problems will be graded for correctness. These assignments will be worth 15-20 points each.

You are encouraged to form study groups with your fellow classmates and work together on homework problems. Unless otherwise specified, the homework assignment(s) you submit every week must be written in your own words with work that justifies your solutions.

**Quizzes**

There will be a 10 minute quiz given at the end of class (almost) every Thursday. There will be a total of 8 quizzes throughout the quarter; your lowest quiz score will be dropped.

**Classroom Participation**

You will learn more and retain more knowledge if you are an active participant in this class. This means you are expected to attend class regularly, participate in discussions, ask me questions, ask your classmates questions, and set aside time to work on math every day. This will not play a role in your calculated grade, but it will have a direct impact on how much you learn and what you take away from this class.

**Exams**

There will be two exams given in this course.

- **Midterm Exam**: Thursday, October 30
- **Final Exam**:
  - Section 01 (9:15-10:05): Tuesday, December 9 8:00-9:50
  - Section 02 (10:15-11:05): Thursday, December 11 10:00-11:50

**Calculator Policy**

A graphing calculator such as a TI-83 or TI-84+ may be useful for visualizing some of the material in this course. It is important to realize that a calculator that is a tool that can be used to make life easier, but that a calculator should not be used in place of your brain. There will be certain quizzes and portions of each exam on which you will not be allowed to use a calculator.

**Grades**

- Homework: 20%
- Quizzes: 25%
- Midterm Exam: 25%
- Final Exam: 30%

**Make-up Policy**

Make-up quizzes and exams will not be given, and late homework will not be accepted. If you have a compelling and well-documented reason for missing a quiz/exam, come talk to me. It is highly recommended that you let me know of the situation at least one week in advance.
How to Succeed in this Course

1. Come to class. Someone is paying a lot of money for you to be here. If you have to miss a class for any reason, it is your responsibility to find out what you missed, get notes, etc. The course website includes a lecture schedule and homework schedule.

2. Practice, practice, practice. The only way to achieve the level of mental dexterity that is needed to pass the exams in this course is to practice doing computations. This means that you should do every assigned homework problem, and work through the problems that have not been assigned if you feel that you need extra practice. The solutions manual is NOT your friend!

3. Ask questions. Don’t be afraid to come to office hours – I promise I don’t bite! In addition to my office hours, there are many resources available for you to get help and ask questions about the class. Be sure to take advantage of them!

4. Read the book. Otherwise, it’s just a really expensive paperweight.

Outside Help

- Math Lab: The mathematics department runs a math lab where you can go for help with this course or just to study. You can drop in to work there any time they are open.
  
  Location:  LEML 2nd floor
  
  Hours: M–Th 9:00am – 5:00pm; F 9:00am – 12:30pm
  
  Website:  http://www.seattleu.edu/scieng/math/default.aspx?id=14586
  
  (or just Google “Seattle U math lab”)

- Learning Center: The Seattle University Learning (LEML, 2nd floor) center provides learning-related workshops and can arrange additional (free!) tutoring for you if necessary.

Academic Code of Conduct

Seattle University is committed to the principle that academic honesty and integrity are important values in the educational process. Academic dishonesty in any form is a serious offense against the academic community. Acts of academic dishonesty will be addressed according to the Seattle University Academic Integrity Policy. The policy can be found at https://www.seattleu.edu/registrar/policies.aspx. If you are not sure whether a particular action is acceptable according to the Academic Honesty Policy, you should check with your instructor before engaging in it.

Classroom Decorum

Please be courteous to your fellow classmates – entering the classroom after class has started and packing up to leave before class has ended is disruptive to everyone else in the room. Please silence your cell phones during class. If you have a need to text/surf the internet/use Facebook during class, you are free to go somewhere else and tend to these needs.

Disability Services

If you have, or think you may have, a disability (including an invisible disability such as a learning disability, a chronic health problem, or a mental health condition) that interferes with your performance as a student in this class, you are encouraged to arrange support services and/or accommodations through Disabilities Services staff in the Learning Center, Loyola 100, (206) 296-5740. Disability-based adjustments to course expectations can be arranged only through this process. See: https://www.seattleu.edu/DisabilitiesServices/