**MATH 144**
**TRIGONOMETRY**

# Course Syllabus

Fall 2021

**PLEASE NOTE THAT THE RULES AND REGULATIONS FOR THE COURSE THAT ARE OUTLINED IN THIS SYLLABUS ARE SUBJECT TO CHANGE DUE TO ANY INSTITUTIONAL CHANGES THAT MAY OCCUR DUE TO COVID-19.**

**1. GOALS OF THE COURSE:** The primary purpose of Trigonometry is to improve your skills and competency in trigonometry to prepare you for calculus. Another goal is to help you develop your mathematical learning skills so that you will be more confident in future mathematical courses.

**2. LEARNING OUTCOMES:** After completing Math 144, the student should be able to do the following without the use of a calculator:
- Understand the right triangle definitions of the trigonometric functions
- Understand the unit circle definitions of the trigonometric functions
- Evaluate trigonometric functions of angles belonging to the $\frac{\pi}{3}, \frac{\pi}{4},$ and $\frac{\pi}{6}$ families
- Sketch the graph of functions of the form $y = A\sin(Bx + C) + D$ and $y = A\cos(Bx + C) + D$
- Understand the graph of the tangent function and its properties
- Understand the graph of the cosecant and secant functions and their properties
- Understand the graphs of the inverse sine function, inverse cosine function, and inverse tangent function
- Evaluate expressions involving inverse trigonometric functions
- Verify trigonometric identities
- Solve trigonometric equations

**3. REQUIRED STUDENT MATERIALS/COMPUTER RESOURCES**

MATH 144 **Fall 2021** COURSE NOTEBOOK: Fill out every page of the notebook by working through the eText, watching videos, animations, etc. **Filling out the course notebook will give students the best possible chance at success in this course!!**

MyLab Access: All students must opt in through Inclusive Access (IA) through BBLearn.

**4.  GRADE CALCULATION**

- This course will cover three chapters (Ch 1, Ch 2, and Ch 3).  There will be one test after the completion of each chapter (see the Notebook Table of Contents for a list of sections covered) for a total of three tests throughout the semester.  Each test is worth 100 points.
- There are a total of 15 homework assignments.  **Before starting many homework assignments, you will be required to earn a certain score on a practice test.  Make sure that you leave yourself enough time to take the practice test before you start each homework assignment.**  Your total homework percent score will be computed at the end of the semester.  Your total homework score is worth 100 points.  **This overall Homework score can be used to replace one of your three test scores.**
- The tests are cumulative.  Each test will cover material from the entire semester leading up to the test.  Therefore, test 3 will cover the entire semester.  **For more information about tests, see the section titled TEST PROCEDURES BELOW.**
- Calculators are **not allowed** during tests.

Four grades will be used to calculate your final course grade – Homework Average, Test 1, Test 2, and Test 3.  The three highest scores will be counted for a total of 300 points.

Your course grade will be based on the total number of points (out of 300) that you have earned as follows:

270 points guarantees an A

240 points guarantees a B

210 points guarantees a C

180 points guarantees a D


**1.  TEST PROCEDURES**


# Note:    Calculators will **NOT BE ALLOWED** during any exams in this course.

- All tests are password protected and will be proctored in the Polya Mathematics Center.
- The student must show their Student ID card to the proctor before taking a Test.
- Tests can be taken anytime that you feel you are ready.  Tests CANNOT be taken after the deadline.  The deadline for each test is outlined below:
  
  |        |                             |
  |--------|-----------------------------|
  | Test 1 | Sept 16 by 9:00 PM Pacific Time |
  | Test 2 | Oct 14 by 9:00 PM Pacific Time |
  | Test 3 | Nov 11 by 9:00 PM Pacific Time |

- **NO CALCULATORS** of any kind are allowed during tests.
- **NO NOTES** of any kind are allowed during tests, although a sheet of formulas will be provided during Test 3.
- **NO DEVICES** which can transmit or receive data, including but not limited to watches, phones, tablets, iPods, and calculators, may be on your person during the exam. Any such items are expected to be left at home or in a secured place outside of the testing area. Failure to do so will result in a zero on the exam and possibly a failing grade for the course.
- **Students must earn at least a 60% on the corresponding practice test** before the first version of the test will become available.

2.  **HOMEWORK AND TEST EXTENSIONS**
    - The due dates for the homework and the tests are stated in this notebook.  These due dates will not change and there will be **NO EXTENSIONS** except for reasons recognized by the University.
    - Make up work for assignments missed because of absence will not be allowed unless an arrangement with the instructor is made prior to the absence, or in cases of medical or family emergency, in which case documentation of the emergency will be required.  Documentation must be **provided within two business days** of the assignment's due date, not to exceed the last day for taking Exam 3 based on the term in which you are enrolled.  The term-specific schedule(s) is/are listed in notebook.  Email appropriate documentation to your instructor
    - If ongoing illness or other circumstances fitting the catalog definition of an excused absence prevent you from bringing documentation for your absence within two business days, then each additional delay must also be documented and the documentation for the delay must be presented with the documentation for the original absence. (See University Catalog under General Requirements and Academic Procedures, section M for details about absences.)
    - If an extension is granted, the length of the extension will be determined by the number of days listed on the documentation.

7.  **COMMUNICATIONS AND EMAIL**

Announcements about the course, special sessions, changes in schedules or procedures, and so forth, will be posted on your MyLab page, on the Polya web page and sent by e-mail.  You are expected to check your University e-mail regularly.

The best way to communicate with your teacher is to speak to them in person during their office hours or when they are working in the Polya Lab.  Office hours will be posted once the semester begins.

**All emails must be sent through the email form located at:** https://sites.uidaho.edu/polyaweb/Login . **Any emails sent without using this form will not be read.**

**All emails must follow standard grammar and punctuation rules.**  Any email which fails to adhere to these standards will be returned to you for revision.  **Emails should also follow basic email etiquette**. Any emails that violate the student code of conduct regarding respect of others will be sent to the Dean of Students as appropriate.

8.  **STUDENT ACCOMMODATIONS**

We are committed to accommodate students with special needs.  Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through the Center for Disability and Resources located in the Pitman Center, Suite 127 in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course.

- (208) 885-6307
- email at cdar@uidaho.edu
- website at https://www.uidaho.edu/current-students/cdar

**9. ACADEMIC HONESTY**

Students are expected to maintain Academic Honesty in all their work. Collaboration is encouraged on homework assignments.  All tests are considered individual work and must be completed without unauthorized assistance of any kind, including the help of other students, tutors, notes, or calculators.  All scratch paper from tests will be collected when you finish your test and filed in Polya.

The University of Idaho has defined acceptable behavior in the Student Code of Conduct Article II.A-1 – Academic Dishonesty *[rev. 7-98, 7-05, 7-14, ed. 7-09]*.  The following summarizes relevant points related to your math course:

- **Because academic honesty and integrity are core values at a university, the faculty finds that even one incident of academic dishonesty may merit expulsion**.

- **Cheating tests is a violation of this code.**

- Plagiarism, falsification of academic records, falsification of records and the acquisition or use of test materials without faculty authorization are considered forms of academic dishonesty and, as such, are violations of this code.

- Instructors and students are responsible for maintaining academic standards and integrity in their classes. Consequences for academic dishonesty may be imposed by the course instructor.  Such consequences may include but cannot exceed a grade of "F" in the course.

(The full text of the Student Code of Conduct may be found at https://www.uidaho.edu/student-affairs/dean-of-students/student-conduct )

**10. DUE DATES**

## Fall 2021

Section 1.1 and Section 1.3…………………………… Thurs   Aug 26
Section 1.4 and Section 1.5…………………………… Thurs   Sep 2
Section 1.6 and Section 2.1A……………………… Thurs   Sep 9
Test 1 A…………………………………………….......... Tues   Sep 14
Test 1 B…………………………………………….......... Wed   Sep 15
Test 1 C……………………………………………......... Thurs   Sep 16

Section 2.1B and Section 2.2……………………… Thurs   Sep 23
Section 2.3 and Section 2.4……………………….. Thurs   Sep 30
Section 2.5…………………………………………… Thurs   Oct 7
Test 2 A…………………………………………….... Tues   Oct 12
Test 2 B……………………………………………… Wed   Oct 13
Test 2 C…………………………………………….... Thurs   Oct 14

Section 3.1 and Section 3.2……………………… Thurs   Oct 21
Section 3.3…………………………………………...Thurs   Oct 28
Section 3.5…………………………………………...Thurs   Nov 4
Test 3 A……………………………………………... Tues   Nov 9
Test 3 B……………………………………………... Wed   Nov 10
Test 3 C……………………………………………... Thurs   Nov 11

**The due dates above will NOT be changed.  It is the responsibility of the student to adhere to these deadlines and to take responsibility to make sure that these deadlines are met.**

**Note:  Students may finish this course early by completing all assignments and tests.  There is no limit to how fast a student can finish this course.**

**11. COURSE NOTEBOOK**

The best way to be successful in this course is to fill out **every page** of this notebook.  Fill out each page of this notebook by carefully reading the eText and by watching videos and animations **before** attempting the corresponding homework problems.