

# MATH 123 : TRIGONOMETRY

Section 501 (T/Th 3:00- 4:15), CRN 22952

Fall 2018

**Instructor:** Ian Burch

**E-Mail:** [ianburch@unm.edu](mailto:ianburch@unm.edu)

**Office and Hours:** A123 M/T/W/Th 10:00 - 11:00

A123 M/W 1:30 - 2:30

Stem Center T/Th - 12:00 - 1:00

## Course Goals

A deep understanding of trigonometric functions, their symmetry, meanings, graphs, and interpretations. Use of trigonometric functions for real world applications such as physics, engineering, and surveying. Introduction to logical proofs through trig identities. Basic for of complex numbers and their roots, including DeMoivre's Theorem

## Materials:

- Larson, *Precalculus, 10th Edition*
- Scientific or graphing calculator
- Folder

**Expectations:** Students are expected to conduct themselves in a professional and collegial manner. Please refrain from using cell phones during class unless approved in advance by instructor. Absences may be excused only with a documented reason, preferably given in advance. Students with more than 4 absences may be dropped from the course

**Disability Statement:** If you have a documented disability, please provide me with a copy of your letter from Equal Access Services as soon as possible to ensure that accommodations are provided in a timely manner. If you feel you need accommodations but have not documented your disability, please contact Jeanne Lujan, the coordinator for Equal Access Services at 925-8910 or [jmlujan@unm.edu](mailto:jmlujan@unm.edu)

**Academic Honesty:** Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, including dismissal, against any student who is found responsible for academic dishonesty. Any student who has been judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests or assignments, claiming credit for work not done or done by others; hindering the academic work of other students; and misrepresenting academic or professional qualifications within or outside the University.

**Title IX :** In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants (TA), and Graduate Assistants (GA) are considered responsible employees. This designation requires that any report made to a faculty member, TA, or GA regarding sexual misconduct or

gender discrimination must be reported to the Office of Equal Opportunity and the Title IX Coordinator. For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>

**Late Work :**

Homework past the due date will not be accepted without an emailed or written request prior to the deadline.

**Grade Breakdown**

Final Exam	25%
Midterm Exams (2)	25%
Homework	20%
Projects	15%
Quizzes	10%
Attendance	5%

Letter grades will be given as follows, with + or - given for the highest and lowest 3% in each range, respectively.

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
0% - 59%	F

Earning a 70% or above in the course is a condition for passing, although some subsequent courses may require a C (73%) or above in this course in order to qualify.

**Tentative Schedule :**

Week 1: Radians	Week 9: Trig Equations
Week 2: Unit Circle	Week 10: Trig Equations
Week 3: Secondary and Inverse Trig Fns	Week 11: Review & Midterm #2
Week 4: Review & Midterm #1	Week 12: TBD
Week 5: Applications	Week 13: TBD
Week 6: Applications	Week 14: Complex Numbers
Week 7: Identities	Week 15: Complex Numbers
Week 8: Identities	Week 16: Review & Final