

Math 1060-003

Fall, 2017

- Instructor:** Marin Petkovic, JWB 221, petkovic@math.utah.edu
- Class Time & Place:** 11:50 AM-12:40 PM, Mondays, Wednesdays and Fridays in LCB 215
- Office Hours:** MW after class and T 11:30-12:30
- Text:** PRECALCULUS, 9th Edition, 2013 Larson. The University of Utah has negotiated special pricing for the text and Webassign; For \$75 you may purchase the online version of the text with Enhanced Webassign. This price covers both 1050 and 1060. OPTION: if you would like, you may also purchase a loose-leaf version of the text for \$40. The text may be purchased at <http://services.cengagebrain.com/course/site.html?id=2233827> see text flier for more information
- Course Information:** Math1060, Trigonometry, is a 3-credit semester course.
- Course Goal:** Improve quantitative reasoning and prepare for future math learning in calculus, linear algebra, and discrete mathematics.
- Topics to be covered:** Trigonometry, Topics in Analytic Geometry, and the Complex Numbers.
- Expected Learning Outcomes:**
1. Understand trigonometric function definitions in the context of the right triangles and on the unit circle.
 2. Graph basic trigonometric functions and those with basic transformations. Be able to write an equation given a graph. Identify amplitude, periods, phase shifts from graphic and algebraic representations of functions.
 3. Solve applications problems using principles in trigonometry.
 4. Represent and interpret real world contexts situations using radian trigonometric functions.
 5. Use trigonometric inverses correctly, understanding the domain/range restrictions.
 6. Verify trigonometric identities, using proper logic and use trigonometric identities to evaluate expressions.
 7. Solve trigonometric equations.
 8. Solve for all measurements in any triangle, using the Pythagorean Theorem, trigonometric functions, the Law of Sines, and Law of Cosines in a variety of contexts and applications.
 9. Be able to convert to and from rectangular and trigonometric-form coordinates (polar coordinates).

10. Graph complex numbers in a plane, perform operations on such numbers and use DeMoivre's theorem to find roots and powers of complex numbers.
11. Understand geometry and arithmetic operations with vectors and use vectors in application problems.
12. Use parametric equations in application problems and be able to convert between parametric and non-parametric representation of functions.
13. Understand and explain arithmetic with complex numbers using trigonometry.
14. Write an equation for a conic given a graph of the conic; given an equation of a conic, recognize the conic and be able to graph it.

Grading: Homework 15%
 Quizzes 15%
 Midterm 1 20%
 Midterm 2 20%
 Final Exam 30%

Important Dates: Class will meet every Monday, Wednesday, and Friday, however, there will be no class:
 Monday, September 4 (Labor Jr. Day)
 Monday - Friday, October 9-13 (Fall Break)
 Thursday - Friday, November 23-24 (Thanksgiving Break)

Midterm 1: Friday, Oct. 6

Midterm 2: Friday, Dec. 1

Final Exam: Thursday, December 14, 1:00pm-3:00pm (see: <http://registrar.utah.edu/academic-calendars/final-exams-fall.php>). The location will be announced in class.

There are no make-up exams. Students who miss an exam or quiz will receive a 0 on the missed exam or quiz.

Homeworks: All homework is to be completed on Webassign. Due dates for homework assignments can also be found on Webassign. Late homework will not be accepted. You will be given ample time to do your assignments, you may ask me, the SI, or TAs questions or you may work with others on assignments. You may submit up to 10 answers for each prompt. Please note, homework is a substantial part of your grade for the course (15%), it is to your benefit to make success on the assignments a priority - partial credit is better than no credit!

Quizzes: There will be a total of 10 quizzes. You must be in attendance to take the quiz, however the three lowest quiz scores will be dropped.

Calculators:	Calculators will be useful for homework, but will not be permitted on exams.
Online Grades:	I will put your grades online on Canvas. You can get there easily from the main University of Utah website www.utah.edu . To log in, you use the same student id and password that you use for Campus Information System. I would advise you to check your grades often and please let me know about any mistakes.
Grading Scale:	A (93-100), A- (90-92), B+ (88-89), B (83-87), B- (80-82), C+ (78-79), C (73-78), C- (70-72), D+ (68-69), D (63-67), D- (60-62), E (0-59).
ADA Statement:	The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability & Access (CDA), 162 Olpin Union Building, 581-5020 (V/TDD). CDA will work with you and me to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDA.
Student Responsibilities:	All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. http://regulations.utah.edu/academics/6-400.php
Free Tutoring:	Available at the T. Benny Rushing Mathematics Student Center (adjacent to JWB and LCB), Room 155. M - Th 8am - 8pm; F 8am - 6pm. http://www.math.utah.edu/ugrad/tutoring.html
Private Tutoring:	University Tutoring Services, 330 SSB (they offer inexpensive tutoring)

Classroom Equity: **Social** I strive to be ethical, kind, fair, inclusive and respectful in my classroom and expect students to behave likewise. In this regard, I have these requests of you, my student:

1. Please inform me of whichever pronouns you prefer me to use for you. I will put great effort into honoring your request and ask that you correct me if I do happen to make a mistake.
2. Please do tell me, discreetly, if you have any sort of anxiety disorder, TBI, PTSD, C-PTSD, or any other challenge that would cause psychological harm to you by me calling on you in class.
3. If your preferred name is different than your legal first name (the preferred name you chose does indeed show up in CIS on my roll sheet, but not yet in Canvas), please log into Canvas and go to Account (on far left)–>Settings and change your Display Name to be the name you prefer to be addressed by. This will help me greatly to know students' names, and to address you correctly when responding to Canvas quiz comments.

SI instructors: Cyndi Munoz: cynmunoz@gmail.com
Claudia Dzieszko: u1002346@utah.edu

Video Lectures: Video lectures are available at: <http://www.math.utah.edu/lectures/>