

PreCalculus II - Mathematics 154

Winter 2008

Instructor: Nancy Budner
Office: Continuing Education Office, Bouillon 206V
Office Hours: 9:00 – 10:00 a.m. Daily or by appointment
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Text: PreCalculus: A Problem-Oriented Approach, Sixth Edition, Cohen, Lee, & Sklar, Thomson, Brooks/Cole Publishers, 2005.

Grading:	A	95 or above	A-	92 – 94
	B+	88 – 92	B	83 – 87
	B-		B-	80 – 82
	C+	77 – 79	C	73 – 76
	C-		C-	70 – 72
D	60 – 69	F	Below 60	

1. Incompletes will **NOT** be given!
2. If you have any requests to allow for special needs, let the instructor know within the first three days of class.
3. In and out of class assignments and quizzes will total 100 points.
4. There will be four exams counting 100 points each.
5. A common cumulative final will be given counting 200 points.
6. Make-up exams will **NOT** be given unless the instructor is notified **BEFORE** the exam of the acceptable reason, in person or by message (email or phone). Not being ready for the exam is not an acceptable reason.

Pre-Requisite Skills

Students should be able to

1. Demonstrate competency in using function notation;
2. Work with linear, quadratic, exponential, and logarithmic functions;
3. Demonstrate understanding of the concepts of “inverse” and “composition”.

Course Information

1. This is the final section of a two-part PreCalculus course.
2. This course presents topics in trigonometric functions and function theory.
3. This syllabus sets out the expectations for the coursework which will determine your grade. It is important that you read and understand it. You are encouraged to ask questions. Keep this document for reference.
4. Remember Mathematics is like a foreign language. The only way to gain the skills required for success is through practice. It requires TIME, not just a few minutes of watching someone else doing math. If you can not spend the time to practice this language, you will have problems successfully completing this course. Homework and projects are strictly **YOUR responsibility**. Lack of effort will result in a waste of **YOUR** time and money!
5. You may expect homework on a daily basis.
6. Homework must be done in pencil, be neat, organized and in the order given with problem numbers clearly identified. There must be a space between problems and all homework assignment must be stapled. **Homework that is not neat, easy to read, and done as specified will not be graded.**
7. The most accurate predictors of success are regular attendance and commitment to learning. Two-way communication will help you learn.

Course Objectives

When successfully finishing this course, students will be able to

1. Model real phenomena using trigonometric functions;
2. Convert between radian and degree measures;
3. Analyze the effects of transformations on the graphs of trigonometric functions;
4. Use and manipulate inverse trigonometric functions;
5. Use trigonometric functions (including):
 - a. Pythagorean identities
 - b. sine and cosine of a sum of angles and half angles
 - c. Law of Sines and the Law of Cosines.
6. Locate and determine certain features of trigonometric functions and their inverses (including):
 - a. domains/ranges
 - b. intercepts
 - c. asymptotes
 - d. maxima and minima
 - e. intervals of increase and decrease
7. *Optional:* Work with a variety of “prototype” functions (including)
 - a. polynomial
 - b. rational
 - c. radical