

# Pre-Calculus II (Math 154) — Fall, 2011

**Location and Time:** 8:00-8:50 am, MTWThF, Black151

**Instructor:** Dr. Dan Curtis

**Office:** 107a Bouillon

**Office Hours:** MTWThF 10:00-10:50 am. Actually, you can come by my office at any time and, unless I am occupied, I will be happy to talk with you.

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**Final Exam:** Friday, December 9, 8:00-10:00 am

**Textbook:** Precalculus by D. Cohen, et al, Seventh Edition. **The textbook is required.**

**Calculator:** A graphing calculator will be useful for this course. Classroom demonstrations will be given using the TI-83+. If you have a different scientific calculator, it will probably do everything you need to do, but you'll be on your own to figure out how to use it.

**Course Content:** The course will cover material from chapters 6, 7, 8, 9 of the text. This course is called pre-calculus. The material to be covered is trigonometry, presented with an eye toward its use in subsequent calculus courses. You should read the book. The examples in the text will supplement those given in class and the discussion and examples given in the text will provide reinforcement for material presented in class.

**Classwork and Homework:** You are expected to attend class daily. **Homework** will be assigned but not graded. Some time will be available during class to discuss the homework problems and your instructor is available during office hours. Use will be made of graphing calculators during class, on homework, and on exams.

**Course Prerequisites:** Math 153 is a prerequisite for this course, but the main thing you will need is the ability to do basic algebra and simple plane geometry involving triangles and circles.

**Learner Outcomes:** Upon successful completion of this course, the student will be able to:

- define and use the concept of radian measure;
- define the six standard trigonometric functions: sine (sin), cosine (cos), tangent (tan), cotangent (cot), secant (sec), and cosecant (csc);
- use the trigonometric functions to solve problem;
- recognize the graphs of the trigonometric functions and know their basic features;
- understand the notion of simple harmonic motion and how to represent such motions using trigonometric functions;

**Grading:** Your course grade will be determined by the following:

1. Three 100-point in-class exams counting for up to 300 points.
2. A comprehensive final exam worth 100 points.

A perfect score on each of the above categories would result in a total of 400 points. Your course grade will be determined by the percentage  $p$  of these points you earn, according to the following scale.

$90 \leq p$	A	$65 \leq p < 77.5$	C
$89 \leq p < 90$	A-	$64 \leq p < 65$	C-
$87.5 \leq p < 89$	B+	$62.5 \leq p < 64$	D+
$80 \leq p < 87.5$	B	$50 \leq p < 62.5$	D
$79 \leq p < 80$	B-	$p < 50$	F
$77.5 \leq p < 79$	C+		

**Note:** If you must miss an exam you should let me know in advance. If there is a compelling reason for missing the exam a makeup may be given. (Desire to take a vacation during the quarter is not a compelling reason!)

**Class Schedule (49 class days)**

<b>Date</b>	<b>Class Activity</b>	<b>Date</b>	<b>Class Activity</b>
09/19		10/31	
09/20		11/01	
09/21	Classes begin	11/02	
09/22		11/03	
09/23		11/04	
09/26		11/07	
09/27		11/08	
09/28		11/09	
09/29		11/10	
09/30		11/11	HOLIDAY: Veteran's Day
10/03		11/14	
10/04		11/15	
10/05		11/16	
10/06		11/17	
10/07		11/18	
10/10	Exam 1	11/21	Exam 3
10/11		11/22	
10/12		11/23	HOLIDAY: Thanksgiving
10/13		11/24	HOLIDAY: Thanksgiving
10/14		11/25	HOLIDAY: Thanksgiving
10/17		11/28	
10/18		11/29	
10/19		11/30	
10/20		12/01	
10/21		12/02	Last day of classes
10/24		12/05	Prof. Dev./ Student Study Day
10/25		12/06	
10/26		12/07	
10/27	Exam 2	12/08	
10/28		12/09	Final Exam (8:00-10:00 am)