

Fall 2011

COURSE: MATH 186, Pre-calculus, 4 credit hours
DAY AND TIME: W/F 4 - 5:40 PM Room D219
PREREQUISITE: MATH 137, Intermediate Algebra
INSTRUCTOR: ANDREW SMITH
Home Phone: 860-367-0713
Email: asmith@trcc.commnet.edu

TEXT: Pre-calculus, 6th edition by: J. Stewart, L. Redin, and S. Watson
SUPPLEMENTAL MATERIAL: TI-83 calculator

COURSE DESCRIPTION: This course prepares students for the study of Calculus 1. The topics include: polynomials and rational functions and their graphs, quadratic and absolute inequalities, radical expressions, conic sections, exponential and logarithmic functions, trigonometric functions, trigonometric identities and applications.

MEASUREMENTS: There will be 5 quizzes, 5 tests, and a cumulative final exam.
Quizzes - 30%, tests - 45%, final exam - 25% of your grade.

ATTENDANCE: Attendance will be taken every class. Regular attendance is strongly encouraged. Excessive absenteeism may impact your grade.

ACADEMIC HONESTY: At TRCC, we expect the highest standards of academic honesty. The Board of Trustees' Proscribed Conduct Policy prohibits cheating on examinations, unauthorized collaboration on assignments, or plagiarism. Anyone caught cheating will receive an "F" for that exam.

MAKE-UP TESTS: Test that are missed on a scheduled day should be made up on the next class meeting unless other arrangements have been made. Only one make-up test is allowed unless approved by the instructor. No make-up test will be permitted for students that do not attend class. Tests missed as a result of excessive absenteeism will result in a zero.

HOMEWORK: Homework will be assigned each class and will be gone over in the following class. Generally homework will not be graded unless announced in advance.

CLASS

PARTICIPATION: I strongly encourage everyone to participate in class and to ask any questions that you may have.

OFFICE HOURS: By appointment. Call or email me.

**SUPPORT
SERVICES:**

Tutorial services. Peers. Meeting with me for extra help.

**DISABILITIES
STATEMENT:**

Students with disabilities, who may require special accommodations and support services, are encouraged to notify:

1. Chris Scarborough, who is coordinating services to students with disabilities.
2. The instructor during the first two weeks of class.

**LAST DAY TO
WITHDRAW:
Course Content:**

December 9th, 2011

Chapter 1

Fundamentals
Sections 1.5, 1.7

Chapter 2

Functions
Sections 2.1 - 2.7

TEST

Chapter 3

Polynomial and Rational Functions
Sections 3.1 - 3.7

TEST

Chapter 4

Exponential and logarithmic functions
Sections 4.1- 4.6

TEST

Chapter 5

Trigonometric functions of real numbers
Sections 5.1 - 5.5

Chapter 6

Trigonometric functions of angles
Sections 6.1 - 6.6

TEST

Chapter 7

Analytic Trigonometry
Sections 7.1 - 7.5

TEST

FINAL EXAM

Homework Assignments: This is a guide only. It will be modified from time to time.

	Section	Assignment
Chapter 1:	1.5	10 -70, mult of 10, 75, 85, and 111
	1.7	5 - 75, mult of 5, and 105
Chapter 2:	2.1	15, 19, 28, 27, 29, 31, 35, 43, 47, 51, 73
	2.2	20, 23, 33, 37, 45, 49, 51, 57
	2.3	1, 2, 5, 8, 17, 19, 21, 23, 27, 31
	2.4	5, 7, 9, 21
	2.5	5 - 19 odd, 21, 23, 24, 25, 27, 55, 75 - 81 odd
	2.6	5 - 13 odd, 21 - 29 odd, 33, 37, 45
	2.7	5 - 10, 13, 14, 21, 23, 25, 27, 37 - 9, 43, 53, 72
	TEST	
Chapter 3:	3.1	5, 7, 15, 19, 63
	3.2	1, 5 - 17 odd, 27, 31, 61
	3.3	3, 4, 9, 15, 17, 25, 29, 39, 41, 53 - 59 odd, and 64
	3.4	7, 8, 11, 15, 17, 33, 47, 65, 66
	3.5	5 - 29 odd, 32, 34, 37 - 41 odd, 47, 50 - 53, 57
	3.6	5, 7, 13, 17, 35, 37, 45, 47, 63
	3.7	3 - 6, 7, 11, 15, 17, 21, 25, 41, 43, 47, 65, 71
	TEST	
Chapter 4:	4.1	2, 5, 19, 23, 28, 40, 52
	4.2	7, 23, 33
	4.3	7 - 33 odd, 45, 49, 50, 53, 55, 57
	4.4	7 - 33 odd, 45, 47, 49, 51
	4.5	3 - 33 odd, 29, 37 - 47
	4.6	1, 5, 18, 19
	TEST	
Chapter 5:	5.1	3, 7, 10, 21, 35, 38
	5.2	6 - 66, mult of 3
	5.3	3, 7, 9, 19, 21, 31, 36, 43
	5.4	3, 7, 9, 17, 39
	5.5	3 - 17 odd, 23 - 26

Chapter 6:	6.1	3 - 47 odd, 55 - 65 odd
	6.2	3 - 37 odd, 51, 53
	6.3	3 - 17 odd, 35 - 41 odd, 45, 47, 49
	6.4	3, 4, 7, 8, 15, 16, 21, 23, 27, 33
	6.5	3 - 15 odd, 19, 21, 23, 25
	6.6	3 - 15 odd, 21, 23, 27

TEST

Chapter 7:	7.1	3 - 21 odd, 29 - 43 odd
	7.2	3 - 27 odd, and 33
	7.3	3, 5, 7, 9, 17, 19, 29, 31, 33, 37, 39, 47, 52, 73
	7.4	5 - 41 odd
	7.5	3, 5, 9, 11, 15, 17, 19

TEST

Chapter 10:	10.3	5 - 40, mult of 5
	10.4	5 - 45, mult of 5
	10.5	5 - 40, mult of 5
	10.6	5 - 35, mult of 5
	10.7	1, 3, 7, 15, 29

FINAL EXAM (YEA!!)