

SPRING 2014

COURSE: MATH 186, Pre-calculus, 4 credit hours
DAY AND TIME: T/TR 10 - 11:40 AM Room E204
PREREQUISITE: MATH 137, Intermediate Algebra
INSTRUCTOR: ANDREW SMITH
Home Phone: 860-367-0713
Email: asmith@trcc.commnet.edu

TEXT: Pre-calculus, 5th 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: Tests 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.

Course Content:

Chapter 1	Fundamentals Sections 1.5, 1.7
Chapter 2	Functions Sections 2.1 - 2.5, 2.7, 2.8 TEST
Chapter 3	Polynomial and Rational Functions Sections 3.1 - 3.6 TEST
Chapter 4	Exponential and logarithmic functions Sections 4.1- 4.5 TEST
Chapter 5	Trigonometric functions of real numbers Sections 5.2 - 5.4
Chapter 6	Trigonometric functions of angles Sections 6.1 - 6.5 TEST
Chapter 7	Analytic Trigonometry Sections 7.1 - 7.5 TEST

Chapter 9

Systems of Equations
Sections 9.3 - 9.8**FINAL EXAM**

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

	Section	Assignment
Chapter 1:	1.5	10-- 60 , multiples of 10, 75, 101
	1.7	5 - 70, multiples of 5, 93
Chapter 2:	2.1	11, 13, 15, 21, 23, 25, 29, 39, 41, 45, 63
	2.2	11, 13, 15, 23, 25, 37, 41, 49, 53, 55, 57, 63
	2.3	1, 3, 5, 17
	2.4	1 - 19 odd, 33 - 45 odd, 61 - 67 odd
	2.5	1, 3, 11, 15, 59
	2.7	1 - 9 odd, 19 - 27 odd, 33, 37, 39
	2.8	1 - 5, 21, 23, 25, 31 - 37 odd, 52, 62
	TEST	
Chapter 3:	3.1	1 - 17 odd, 23, 27 and 71
	3.2	1, 9, 15, 39, 51, 55, 57
	3.3	3,4,7,11,13,29, 41, 59
	3.4	1 - 11 odd, 19, 25, 29, 31, 33, 43, 45
	3.5	1, 7, 23, 33, 35
	3.6	1 - 23 odd, omit 9, 23, 33, 37, 57, 63
	TEST	
Chapter 4:	4.1	3, 11, 15, 19, 21, 23, 28, 43, 67, 77
	4.2	5 - 29 odd, 37, 41, 43, 45
	4.3	1 - 27 odd, 39, 41, 43, 45, 49, 51
	4.4	1 - 21 odd, 35 - 45 odd
	4.5	1, 5 15, 17
	TEST	
Chapter 5:	5.2	3 - 66, mult of 3
	5.3	1, 5, 7, 17, 19, 31 and P.458/ 3,4,6,7
	5.4	7, 15, 25
Chapter 6:	6.1	1 - 45 odd, 53 - 63 odd
	6.2	1 - 35 odd, 49, 51, 53
	6.3	1 - 15 odd, 33 - 39 odd, 43, 45, 47
	6.4	1 - 13 odd, 17, 19, 21, 23
	6.5	1 - 13 odd, 19, 21, 27
	TEST	

Chapter 7:	7.1	1 - 17 odd, 25 - 41 odd
	7.2	1 - 25 odd
	7.3	5, 17, 27, 29, 31, 35, 37
	7.4	1 - 17 odd, 41, 43
	7.5	3, 5, 9, 11, 15, 17, 19

TEST

Chapter 9:	9.3	5, 9, 15, 19
	9.4	10 - 40, mult of 10
	9.5	5 - 45, mult of 5
	9.6	8 - 40, mult of 8
	9.7	15, 19, 29, 35

FINAL EXAM (YEA!!)