Precalculus   Math 186   Three Rivers Community College   Crn# 10948
Professor June Decker   Tues/Thur Spring 2007
jdecker@trcc.commnet.edu   Version 1,   1-23-07

Text: Stewart, Redlin and Watson. Precalculus, 5th ed.
Graphing calculator is required.

Be sure to log onto http://vista.webct.org
to view any updates to this class schedule.

Dates	section in text	topic	homework assignment
Jan 23,25	chapt 1 2.1, 2.2	Fundamentals What is a function Graphs of functions	p. 130 Concept Check #1-33 p. 135 Chapter 1 Test #1-22, Read p 138-145 "Focus on Prob Solving" Sect 2.1. 1, 5, 9, 11, 15, 17, 21, 23, 26, 27, 29, 31, 33,37, 41, 55, 59,63, 65,69, 70, 71 Sect 2.2 1, 5, 9…93
Jan 30 Feb 1	2.3 "focus on modeling", page 239 ff (Fitting lines to data)	Increasing and Decreasing, Average Rate of Change = Slope,	p 179 sect 2.3 avg rate of change # 4, 6, 10, 11, 14,18 26, 29, 32, 34, 37, 38 Linear data project due Feb 15

Feb 6, 8	2.4-2.6	Transformations, Quadratics, Word Problems.	p. 190 sect 2.4 transformations #1-9 odd, 11-21 all, 23-71 every other odd (23,27,31… 71), 73, p.200 sect 2.5 quadratics # 1, 17, 19, 27, 31, 33, 39, 41, 45, 49, 57, 60, 61, 69 p. 210 sect 2.6 word problems. 13, 19, 23, 37, 29, 31, 33, 35 Post the answer to one word problem on the discussion board on http://vista.ctdlc.org
	2.7	Combining f(x),	p. 219 sect 2.7: 3, 5, 9, 11, 15–27 odd, 29-53 every other odd (eoo), 55,-63 odd, 56
	2.8	Inverse f(x)	p. 230 sect 2.8 : 1,3,5,17,19-79 eoo, 53, 69, 81

Feb 13,

Feb 15 | 3.1 | Polynomial Functions and their graphs | **TEST CH 1, 2**

Linear Data Project Due 2/15/07

p. 262 sect 3.1 1,3,5-10 all, 11-51 eoo, 21, 45, 57, 61, 63-69 odd, 72, 73-79 odd, look at #73, think about 81-84, |
| Feb 20,22 | 3.2-3.5 | Polynomials: divide, zeros, complex numbers, Fundamental Theorem of Algebra | sect 3.2, p. 270 #1 – 67 every other odd

sect 3.3, p. 279 #1-17 eoo, 29, 35, 39, 47, 49, 53, 56, 79, 93, read 102 for curiosity sake,

sect 3.4, p. 289 #1-9 odd, 13-43 eoo, 45-61 eoo

sect 3.5, p. 298 #1, 9, 13, 15, 25, 29, 31, 37, 41, 45, 55, 59, 63, 65 |
| Feb 27 Mar 1 | 3.6

4.1, 4.2 | Rational Functions

Exponential and Logarithmic functions | 3.6 p. 312, #3-47 eoo, 61, 67, 77, 82

4.1 p. 336, #3,9,11,15,17,19-24,27,31, 35, 39, 42, 51, 55, 65, 69, 71, 75, 77, 79, 81

4.2 p. 349, #1-79 every other odd |
| Mar 6,8 | 4.3-4.5 | Logarithms: definition, laws of, solve equations, word problems | 4.3 p. 356, #1-61 every other odd
4.4 p. 366, #1-81 every other odd

4.5 p. 379 #1, 3, 5, 7, 11, 15, 19, 21, 35

review ch 4: concept check p. 383 review ch 3 |
| Mar 13

Mar 15 | 6.1 | Angle measure, | **TEST CH 3,4**

6.1 p 474, #1-65 every other odd and 67, 71, 76, 79 |
| Mar 19-25 | | | **SPRING BREAK** |

Mar 27,29	6.2, 6.3	right triangle trigonometry	6.2 p 484 #1-65 eoo, but not 37 6.3 p 495 #1-57 eoo, plus 61,
Apr 3	6.4-6.5	Law of sines and cosines	6.4 p 506 # 1, 7, 15, 17, 19, 21, 33, 35, note #43 6.5 p. 513 #9, 13, 33, 43
Apr 5			**TEST CHAPTER 6**
Apr 10, 12	5.1 - 5.5	The unit circle, Trig as function of real number Trig graphs, translations and transformations, harmonic motion, other applications	5.1 p. 406 # 1-37 eoo, 19, 51, 53 5.2 p. 416 #1 (compare with #19 sect. 5.1), 5, 11, 17, 19, 21, 23-26, 27, 43, 45, 49, 53, 55, 57, 63, 65, 83, 84 5.3 p. 429 #1-61 eoo, read #82 5.4 know graphs of all six trig functions by heart, also p. 441 # 55, 57 5.5 p. 452 # 9, 29, 31, 33, 35 Predator/Prey Trig project assigned; due Apr 24 End of year problem set assigned; due May 3
Apr 17, 19	7.1-7.3 7.4-7.5	Trig Identities Inverse Trig f(x), trig equations,	
Apr 24, 26			**TEST CHAPTER 5** **Trig project due Apr 24**
	Chapter 9 selected topics	solve system of equations with matrices	
May 1, 3	More ch 9 Present problem set in class	Matrices and determinants	problem set due May 3
May 10			**Cumulative Final Exam**