

Precalculus Math 186 Three Rivers Community College updated 9/12/07
 Professor June Decker Fall 2007
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 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
9/3	chapt 1	Fundamentals	p. 130 Concept Check #1-33 p. 135 Chapter 1 Test #1-22,
9/8			Read p 138-145 "Focus on Prob Solving", then pick 3 word problems from section 1.6 (#18 - 84) Post the solution to one word problem on the discussion board on Vista Blackboard
9/10			QUIZ ON CH 1
9/10	2.1, 2.2	What is a function Graphs of functions Increasing and Decreasing,	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
9/15	Complete section 2.2 2.3	Piecewise defined functions, step functions Average Rate of Change = Slope	Sect 2.2 1, 5, 9...93 p 179 sect 2.3 avg rate of change # 4, 6, 10, 11, 14,18 26, 29, 32, 34, 37, 38
9/17	"focus on modeling", pages 239 ff (Fitting lines to data)	Given data, find line of best fit	Linear data project 1 due Oct 1 Use data illustrating "The Paradox of Affluence" our annual college theme

9/22	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. Everyone does #13, 19, 23, 37, 29, 31, 33, 35. Post the answer to one word problem on the discussion board on Vista Blackboard
9/24	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
Sept 29	TEST CH 1 and 2	Use chapt tests in text to review Check Vista Blackboard for test review info	TEST on CH 1 and 2 on Sept 19 Linear project due Oct 1
Oct 1	3.1-3.5	Polynomial Functions and their graphs	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
Oct 6		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

Oct 8	3.6	Rational Functions	3.6 p. 312, #3-47 eoo, 61, 67, 77, 82
Oct 13	Columbus day	College is closed	
Oct 15	4.1, 4.2	Exponential and Logarithmic functions	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
Oct 20	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
Oct 22			
Oct 27			TEST CH 3,4
Oct 29	6.1	Angle measure	6.1 p 474, #1-65 every other odd and 67, 71, 76, 79
Nov 3	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,
Nov 5	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
Nov 10			TEST CHAPTER 6

Nov 12 Nov 17	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 Dec 5
Nov 19 Nov 24	7.1-7.3 7.4-7.5	Trig Identities Inverse Trig f(x), trig equations,	Trig project due 11/24 Distribute end of year problem set due Dec 10
Dec 1 Dec 3			Review ch 5/7 TEST Ch 5 and 7
Dec 8	Chapter 9 selected topics	solve system of equations with matrices/ determinants.	
Dec 10 Dec 12	Review for final exam		
Dec 17			Cumulative Final Exam