

PCC Math 251 and 251lab, Spring 2017, Instructor: Jeff Pettit. This is a rough schedule. We may get ahead of schedule or we may fall behind. Changes will be outlined in class as needed.

Week and class dates	Topic	Sec	Practice (text problems are exam-connected, but not submitted)
Week 1 April 4 & 6	The Tangent and Velocity Problems The Limit of a Function	2.1 2.2	1,2,3,5,7-9 1,2,3,5,8,10,15,17,19,22,25,28,30 Lab Chapter 1
Week 2 April 11 & 13	Calculating Limits Using Limit Laws Continuity Limits Involving Infinity	2.3 2.4 2.5	1-3,5-9,11-17odd,18,20,21,25,27,28,32,35,38,39,41,43,46 1-4,6,7,9,10a&b,11-15,17-19,23,25,26,29,31-36,39,41,42,45 1-5,7,9,11-13,15,16,19,23,25,27,28,31-39odd,43,47,51,54 Lab Chapter 2
Week 3 April 18 & 20	Derivatives and Rates of Change The Derivative as a Function Thurs: Lab Set1 (Labs 1&2) Write-Up due	2.6 2.7 Lab1	1-4,7,10,11,13-15,17,19,21,22,24,25,28,32,41,44,47,48 1-3,5,7-9,11-17,19,20,25,27,28,31,-33,35,36,41-43,49 Lab 3
Week 4 April 25 & 27 Exam #1 Thurs.	What Does f' say about f ? Thurs: Exam 1 covers Weeks 1-3 lectures	2.8 Exm1	1-7odd,8,9-15odd,16,17-27odd,28,29,32 Lab Chapter 4
Week 5 May 2 & 4	Derivatives of Polynomials and Exponentials Product and Quotient Rules	3.1 3.2	1-3,7-12,19-25odd,26,28,29,31-35odd,40,43-46,48,53,58,59,63 1-5,7-10,13,15,16,21,23,25,29,31,32,36,38-41,43,45,48-50,57 Lab Chapter 5
Week 6 May 9 & 11	Derivatives of Trigonometric Functions The Chain Rule Thurs: Written outline of project accepted for advice and corrections	3.3 3.4	2,3,5,9,11,13-14,17-19,23,26,29,32,35,36,41,42,46,47 1,2,4,5,7,8,11-13,15,16,19,25-27,30,31,33,37,39,41,45,46,51,53,55-57,67,73-75 Lab Chapter 6
Outline should explain topic, data, diff.quo., several regressions and mathematical&logical choice & imitations for best fit regression			
Week 7 May 16 & 18	Implicit Differentiation Inverse Trigonometric Functions Derivatives of Logarithmic Functions Thurs:Lab Set2 (Labs 3-6) Write-Up due	3.5 3.6 3.7 Lab2	1-4,7-13odd,16,17,23,25,27,32,33,36,48,51,54 tba 1,3,5,9,10,11-21odd,22,23,25,27,28,31,35,37,39,42 Lab Chapter 7
Week 8 May 23 & 25	No class Tuesday, April 25 Rates of Change in Nat. and Soc. Sci. Related Rates	3.8 4.1	2,3,5,6,8,9,12a,13,18,20,25,27,30,34 1-4,6,11,12,14,15,17,19,20,22,23,25,26,29,31,33,37,38,42 Lab Chapter 8
Week 9 May 30 & June 1 Exam 2	Maximum and Minimum Values Derivatives and the Shape of Curves Thurs: Exam 2 covers Sec.3.5-end of Wk8	4.2 4.3 Exm2	1,4,5,9-11,17,26,27,29,33,35,37,40,43,45,47,51,59,61,63 1-3,5,6,8,9,13-15,18-20,23,27,30-32,35,36,39,41,49,65,66 Lab Chapter 9
Week 10 June 6 & 8 Proj. Presentations	Tues (and Thurs if needed): Project Presentations ; Catch-up Lectures, Catch-up Lab, Final Exam Review	Proj2	Presentations should: explain the topic, the data and the choice of regression; it should compare diff. quotient of data to regression's derivative
Week 11 Final Exam Tuesday, June 13	Cumulative Final Exam , Tuesday, June 13, Last chance to pass Skills Test; Lab Set 3 (Labs 7-9) due before leaving class. No class Thursday		