

## Math 148 Fall 2007

### Lecture Plan

- *Precalculus, a problems-oriented approach*, 6th Edition, West Publishing Company, 2005, with Theodore B. Lee and David Sklar, by David Cohen (C)
- *Single Variable Calculus*, 6th Edition, Thomson Brooks/Cole, 2008, by James Stewart (S)

- Week 1:** C: sections 1.1 — 1.3, 2.1, Appendix B4  
Real Number System, Absolute Value, Polynomials
- Week 2:** C: sections 12.2 — 12.6 (selected topics), 2.3, 2.4  
Properties of Polynomials, Inequalities
- Week 3:** C: sections 1.4 and 1.5  
Cartesian Coordinate System, Graphs of Equations
- Week 4:** C: sections 1.6 and 1.7  
Analytic Geometry of Lines, Symmetry, Translations
- Week 5:** C: sections 3.1 — 3.5; S: sections 1.1 and 1.3  
Functions
- Week 6:** S: sections 2.1 — 2.3  
Limits
- Week 7:** S: sections 2.5 and 3.1  
Continuity & Tangents, Rates of Change and Differentiation
- Week 8:** S: sections 3.1 — 3.3  
The Definition of the Derivative, Differentiation Rules
- Week 9:** S: section 3.7; C: sections 6.1 and 6.2  
Rates of Change in the Sciences & Trigonometric Functions
- Week 10:** C: sections 6.3 — 6.5  
Right Triangle Trigonometry
- Week 11:** C: sections 7.1 — 7.7  
Trigonometric Functions of Real Numbers
- Week 12:** C: sections 8.1 — 8.4  
Trigonometric Identities
- Week 13:** S: sections 3.4 and 3.5  
Derivatives of Trigonometric Functions, The Chain Rule
- Week 14:** S: section 3.6  
Implicit Differentiation
- Week 15:** Review