Math 0220 Schedule and Practice Problems

August 27: Review of Trigonometry and Trigonometric Functions
ed 1: Appendix A
ed 2: Appendix A

August 30: Limits
ed 1: 1.3 Number 1-8, 11, 13, 16, 19, 20
ed 2: 1.3 Number 1-8, 11, 13, 16, 19, 20

September 1 : Calculating Limits
ed 1: 1.4 Number 1-24, 28, 29, 31-37, 43-48
ed 2: 1.4 Number 1-28, 32, 33, 35-38, 41-43

September 3: Continuity
ed 1: 1.5 Number 3-7, 13-16, 23, 24, 29-33, 35-42
ed 2: 1.5 Number 3-9, 15-18, 25, 26, 31-35, 37, 39-44

September 8: Limits involving infinity
ed 1: 1.6 Number 1-5, 9, 10, 13-31, 38, 39, 43, 45
ed 2: 1.6 Number 1-5, 9, 10, 13-33, 40, 41, 47, 49

September 10: Derivatives and rates
ed 1: 2.1 Number 1-20, 23-37, 41-43
ed 2: 2.1 Number 1-22, 25-30, 43-45

September 13: Derivative as a function
ed1: 2.2 Number 1-12, 17-23, 27-31, 33, 39, 40
ed2: 2.2 Number 1-12, 19-25, 33-37, 41, 45, 46

September 15: Derivative formulas
ed 1: 2.3 Number 1-26, 29-44, 49-52
ed 2: 2.3 Number 1-28, 31-46, 51-54

September 17: Products and quotients
ed 1: 2.4 Number 1-30, 33-36, 41-44, 46, 51, 52
ed 2: 2.4 Number 1-30, 33-36, 41-44, 46, 47, 48

September 20: Chain Rule
ed 1: 2.5 Number 1-40, 43-50, 57, 58
ed 2: 2.5 Number 1-48, 51, 53-56, 63

September 22: Implicit Differentiation
ed 1: 2.6 Number 1-26, 31, 39
ed 2: 2.6 Number 1-28, 33, 43

September 24: Related Rates
ed 1: 2.7 Number 1-38
ed 2: 2.7 Number 1-31, 33-42

September 27: Linear Approximation
ed 1: 2.8 Number 1-24
ed 2: 2.8 Number 1-24

September 29: Exponentials, Logs and Inverses
ed 1: 3.1 Number 7-18, 23-30
ed 1: 3.2 Number 3-26, 31-38, 43-54,59-66, 69-74
ed 2: 3.1 Number 7-18, 23-30
ed 2: 3.2 Number 3-26, 31-34, 43-54, 59-60, 63-68, 71-76

October 1: Derivatives of logs and exponentials
ed 1: 3.3 Number 1-42, 45-58
ed 2: 3.3 Number 1-46, 51-64

October 4: Derivatives of logs and exponentials (cont)

October 6:
Review

October 8
Exam I

October 11: Inverse trig functions
ed 1: 3.5 Number 1-10, 16-38
ed 2: 3.5 Number 1-10, 16-38

October 13: Hyperbolic functions
ed 1: 3.6 Number 1-19, 26-41
ed 2: 3.6 Number 1-19, 26-41

October 18: L'Hopital's Rule
ed 1: 3.7 Number 1-36, 46
ed 2: 3.7 Number 1-38, 50

October 20: Extrema
ed 1: 4.1 Number 3-10, 15-48, 64
ed 2: 4.1 Number 3-10, 15-48

October 22: Mean Value Theorem
ed 1: 4.2 Number 5, 15, 17, 18, 23, 27, 29
ed 2: 4.2 Number 5, 15, 19, 20, 23, 27, 29

October 25: Shape of graphs
ed 1: 4.3 Number 1-10, 13-17, 21-42
ed 2: 4.3 Number 1-12, 15-19, 23-44

October 27: Curve Sketching
ed 1: 4.4 Number 1-44
ed 2: 4.4 Number 1-44

October 29: Optimization
ed 1: 4.5 Number 7-17, 23, 46, 48
ed 2: 4.5 Number 9-19, 22, 23, 28, 54, 56

November 1: Newton's Method
ed 1: 4.6 Number 1, 2, 4-7, 9-12
ed 2: 4.6 Number 1, 2, 4, 6-8, 11-14

November 3: Antiderivatives
ed 1: 4.7 Number 1-20, 31-37, 46
ed 2: 4.7 Number 1-26, 37-43, 52

November 5: Area and distance
ed 1: 5.1 Number 1-5, 7-9, 11, 12
ed 2: 5.1 Number 1-5, 9-11, 13, 14

November 8: Definite integral
ed 1: 5.2 Number 1-4, 7, 9-14, 29-36, 45-47
ed 2: 5.2 Number 1-4, 7, 9-14, 29-36, 47-49

November 10: Evaluating integrals
ed 1: 5.3 Number 1-32, 45-62
ed 2: 5.3 Number 1-36, 49-66

November 12: Fundamental Theorem of Calculus
ed 1: 5.4 Number 1-18, 25-28
ed 2: 5.4 Number 1-18, 25-28

November 15: Review

November 17: Exam 2

November 19: Substitution
ed 1: 5.5 Number 1-50
ed 2: 5.5 Number 1-52

November 29: Substitution (cont)
ed 1: 5.5 Number 1-50
ed 2: 5.5 Number 1-52

December 1: Integration by parts
ed 1: 6.1 Number 1-28
ed 2: 6.1 Number 1-30

December 3: Trigonometric integrals
ed 1: 6.2 Number 1-34
ed 2: 6.2 Number 1-34

December 6: Trigonometric Substitutions
ed 1: 6.2 Number 37-62
ed 2: 6.2 Number 35-64

December 8: Review

December 10: Review

TBA:
Final Exam (all day sections)