Schedule

A week-by-week breakdown of the material.

Week 1 (01/09-01/13)

Day 1 Review of Calc 1[1]
Day 2 Review of Calc 1 (cont)[2]
Day 3 Area between graphs (6.1)[3]

Week 2 (01/16-01/20)

Day 1 Volumes and Mean Value Theorem for integrals (6.2)[4]

Day 2 Volumes of revolution (6.3)[5]

Homework 1 Due: 6.1 14, 20, 26, 34

Day 3 Shell method (6.4)[6]

Week 3 (01/23-01/27)

Day 1 The exponential function (7.1)[7]

Homework 2 Due: 6.2 10, 56, 6.3 24, 40

Day 2 The exponential function (cont) (7.1)[8]

Homework 3 Due: 6.4 8, 40, 44, 46

Day 3 Inverse functions (7.2)[9]

Week 4 (01/30-02/03)

Day 1 Inverse functions (cont) (7.2)[10]

[1] notes/calc1_review.html
[2] notes/calc1_review.html
[3] notes/area_graphs.html
[4] notes/volumes.html
[5] notes/volumes_revolution.html
[6] notes/volumes_shell.html
[7] notes/exponential.html
[8] notes/exponential.html
[9] notes/inverse_functions.html
[10] notes/inverse_functions.html

Day 2 Logarithms (7.3)[11]

Homework 4 Due: 7.1 26, 48, 7.2 4, 40

Day 3 Logarithms (cont) (7.3)[12]

Homework 5 Due: 7.3 22, 34, 54, 98

Week 5 (02/06-02/10)

Day 1 **MIDTERM 1** (study guide[13])

Day 2 Sick day

Day 3 Exponential Growth and Decay (7.4)[14]

Compound Interest (7.5)[15]

Week 6 (02/13-02/17)

Day 1 L'Hospital's Rule (7.7)[16]

Comparative growth of functions (7.7)[17]

Day 2 Comparative growth of functions (7.7)[18]

Homework 6 Due: 7.4 14, 24, 7.5 6, 8

Day 3 Inverse Trigonometric Functions (7.8)[19]

Homework 7 Due: 7.7 26, 46, 56, 58

Week 7 (02/20-02/24)

Day 1 Hyperbolic Functions (7.9)[20]

Integration by parts (8.1)[21]

Day 2 Integration by parts (8.1 cont)[22]

[11] notes/logarithms.html
[12] notes/logarithms.html
[13] notes/midterm1_study_guide.html
[14] notes/exponential_growth.html
[15] notes/compound_interest.html
[16] notes/lhopital.html
[17] notes/growth.html
[18] notes/growth.html
[19] notes/inverse_trig.html
[20] notes/hyperbolic.html
[21] notes/integration_parts.html
[22] notes/integration_parts.html

Day 3 Integration by parts (8.1 cont)[23]

Homework 8 Due: 7.8 22, 38, 60, 7.9 8, 44

Week 8 (02/27-03/03)

Day 1 BREAK
Day 2 BREAK
Day 3 BREAK

Week 9 (03/06-03/10)

Day 1 Trigonometric Integrals (8.2)[24]
Day 2 (at conference)
Day 3 (at conference)

Week 10 (03/13-03/17)

Day 1 Trigonometric Substitution (8.3)[25]

Homework 9 Due: 8.1 10, 14, 36, 38, 52

Day 2 Method of Partial Fractions (8.5)[26]

Day 3 Method of Partial Fractions (8.5)[27]

Homework 10 Due: 8.2 14, 16, 8.3 6, 8

Week 11 (03/20-03/24)

Day 1 **MIDTERM** (study guide[28])
Day 2 Method of Partial Fractions (8.5)[29]
Day 3 Improper Integrals (8.6)[30]

[23] notes/integration_parts.html
[24] notes/integrals_trig.html
[25] notes/integrals_trig_subst.html
[26] notes/integrals_partial.html
[27] notes/integrals_partial.html
[28] notes/midterm2_study_guide.html
[29] notes/integrals_partial.html
[30] notes/integrals_improper.html

Week 12 (03/27-03/31)

Day 1 Improper Integrals (8.6)[31]
Day 2 Numerical Integration (8.8)[32]
Day 3 Taylor Polynomials (9.4)[33]

Week 13 (04/03-04/07)

Day 1 Taylor Polynomials (9.4). Taylor's Theorem[34]
Day 2 Arc Length (9.1)[35]
Day 3 Parametric Equations (12.1)[36]

Week 14 (04/10-04/14)

Day 1 Arc Length and Area (12.2)
Day 2 Conic sections (12.5)
Day 3 Review

[31] notes/integrals_improper.html
[32] notes/integrals_numerical.html
[33] notes/taylor.html
[34] notes/taylor.html
[35] notes/arc_length.html
[36] notes/parametric.html