

Schedule

A week-by-week breakdown of the material.

Week 1 (01/09-01/13)

Day 1 Review of Calc 1¹

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 guide¹³)

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 Trigonometric Substitution (8.3)²⁶

Day 3 Review

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

Week 11 (03/20-03/24)

Day 1 **MIDTERM** (study guide²⁷)

Day 2 Method of Partial Fractions (8.5)²⁸

Day 3 Method of Partial Fractions (8.5)²⁹

Week 12 (03/27-03/31)

Day 1 Improper Integrals (8.6)³⁰

Homework 11 Due: 8.5 4, 8, 16, 30

²³[notes/integration_parts.html](#)

²⁴[notes/integrals_trig.html](#)

²⁵[notes/integrals_trig_subst.html](#)

²⁶[notes/integrals_trig_subst.html](#)

²⁷[notes/midterm2_study_guide.html](#)

²⁸[notes/integrals_partial.html](#)

²⁹[notes/integrals_partial.html](#)

³⁰[notes/integrals_improper.html](#)

Day 2 Improper Integrals (8.6)³¹

Day 3 Improper Integrals (8.6)³²

Week 13 (04/03-04/07)

Day 1 Numerical Integration (8.8)³³

Taylor Polynomials (9.4)³⁴

8.6 12, 16, 26, 38

Day 2 Taylor Polynomials (9.4). Taylor's Theorem³⁵

Day 3 Arc Length (9.1)³⁶

Week 14 (04/10-04/14)

Day 1 Parametric Equations (12.1)³⁷

Day 2 Arc Length and Area (12.2)

Day 3 Review

³¹[notes/integrals_improper.html](#)

³²[notes/integrals_improper.html](#)

³³[notes/integrals_numerical.html](#)

³⁴[notes/taylor.html](#)

³⁵[notes/taylor.html](#)

³⁶[notes/arc_length.html](#)

³⁷[notes/parametric.html](#)