

Schedule

A week-by-week breakdown of the material.

Week 1 (09/07-9/11)

Day 1 Review of Calc 1¹

Day 2 Review of Calc 1 (cont)²

Day 3 Review of Calc 1 (cont 2)³

Area between graphs (6.1)⁴

Day 4 Volumes and Mean Value Theorem for integrals (6.2)⁵

Week 2 (09/14-09/18)

Day 1 Volumes and Mean Value Theorem for integrals (6.2 cont)⁶

Day 2 Volumes of revolution (6.3)⁷

Day 3 Volumes of revolution (6.3 cont)⁸

Day 4 Shell method (6.4)⁹

Week 3 (09/21-09/25)

Day 1 The exponential function (7.1)¹⁰

Day 2 The exponential function (cont) (7.1)¹¹

Day 3 Inverse functions (7.2)¹²

Day 4 Inverse functions (cont) (7.2)¹³

Week 4 (09/28-10/02)

Day 1 Logarithms (7.3)¹⁴

¹[notes/calc1_review.html](#)

²[notes/calc1_review.html](#)

³[notes/calc1_review.html](#)

⁴[notes/area_graphs.html](#)

⁵[notes/volumes.html](#)

⁶[notes/volumes.html](#)

⁷[notes/volumes_revolution.html](#)

⁸[notes/volumes_revolution.html](#)

⁹[notes/volumes_shell.html](#)

¹⁰[notes/exponential.html](#)

¹¹[notes/exponential.html](#)

¹²[notes/inverse_functions.html](#)

¹³[notes/inverse_functions.html](#)

¹⁴[notes/logarithms.html](#)

Day 2 Logarithms (cont) (7.3)¹⁵

Day 3 Logarithms (cont) (7.3)¹⁶

Day 4 Exponential Growth and Decay (7.4)¹⁷

Compound Interest (7.5)¹⁸

Week 5 (10/05-10/09)

Day 1 Review / Catchup

Day 2 **MIDTERM 1** (study guide¹⁹)

Day 3 L'Hospital's Rule (7.7)²⁰

Day 4 L'Hospital's Rule (7.7) cont²¹

Week 6 (10/12-10/16)

Day 1 Comparative growth of functions (7.7)²²

Day 2 Comparative growth of functions (7.7)²³

Day 3 Inverse Trigonometric Functions (7.8)²⁴

Day 4

Week 7 (10/19-10/23)

Day 1 Fall Break

Day 2 Inverse Trigonometric Functions (7.8, cont)²⁵

Day 3 Hyperbolic Functions (7.9)²⁶

Day 4 Integration by parts (8.1)²⁷

Week 8 (10/26-10/30)

Day 1 Integration by parts (8.1 cont)²⁸

¹⁵[notes/logarithms.html](#)

¹⁶[notes/logarithms.html](#)

¹⁷[notes/exponential_growth.html](#)

¹⁸[notes/compound_interest.html](#)

¹⁹[notes/midterm1_study_guide.html](#)

²⁰[notes/lhopital.html](#)

²¹[notes/lhopital.html](#)

²²[notes/growth.html](#)

²³[notes/growth.html](#)

²⁴[notes/inverse_trig.html](#)

²⁵[notes/inverse_trig.html](#)

²⁶[notes/hyperbolic.html](#)

²⁷[notes/integration_parts.html](#)

²⁸[notes/integration_parts.html](#)

Day 2 Trigonometric Integrals (8.2)²⁹
Day 3 Trigonometric Substitution (8.3)³⁰
Day 4 Trigonometric Substitution (8.3) cont³¹

Week 9 (11/02-11/06)

Day 1 Trigonometric Substitution (8.3) cont 2³²
Day 2 Method of Partial Fractions (8.5)³³
Day 3 Method of Partial Fractions (8.5)³⁴
Day 4 Improper Integrals (8.6)

Week 10 (11/09-11/13)

Day 1 MIDTERM
Day 2 Special functions: Gamma
Day 3 Numerical Integration (8.8)
Day 4 Taylor Polynomials (9.4)

Week 11 (11/16-11/20)

Day 1 Arc Length (9.1)
Day 2 Parametric Equations (12.1)
Day 3 Arc Length and Area (12.2)
Day 4 Polar Coordinates (12.3)

Week 12 (11/23-11/27)

Day 1 Area and Arc Length in polar coordinates (12.4)
Day 2 THANKSGIVING
Day 3 THANKSGIVING
Day 4 THANKSGIVING

Week 13 (12/01-12/04)

Day 1 Conic sections (12.5)

²⁹[notes/integrals_trig.html](#)

³⁰[notes/integrals_trig_subst.html](#)

³¹[notes/integrals_trig_subst.html](#)

³²[notes/integrals_trig_subst.html](#)

³³[notes/integrals_partial.html](#)

³⁴[notes/integrals_partial.html](#)

Day 2 Conic sections (cont) (12.5)

Day 3 TBA

Day 4 TBA

Week 14 (12/07-12/11)

Day 1 TBA

Day 2 TBA

Day 3 TBA

Day 4 TBA