

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** Exponential Growth and Decay (7.4)
- Day 4** Compound Interest (7.5)

Week 5 (10/05-10/09)

- Day 1** Review / Catchup
- Day 2** **MIDTERM**
- Day 3** L'Hospital's Rule (7.7)
- Day 4** Comparative growth of functions (7.7)

Week 6 (10/12-10/16)

- Day 1** Inverse Trigonometric Functions (7.8)
- Day 2** Hyperbolic Functions (7.9)
- Day 3** Integration by parts (8.1)
- Day 4** Trigonometric Integrals (8.2)

Week 7 (10/19-10/23)

- Day 1** Fall Break
- Day 2** Trigonometric Substitution (8.3)
- Day 3** Method of Partial Fractions (8.5)
- Day 4** Improper Integrals (8.6)

Week 8 (10/26-10/30)

- Day 1** Improper Integrals (cont) (8.6)
- Day 2** Special functions: Gamma
- Day 3** Special functions: Beta?
- Day 4** Numerical Integration (8.8)

Week 9 (11/02-11/06)

- Day 1** Taylor Polynomials (9.4)
- Day 2** Arc Length (9.1)
- Day 3** Parametric Equations (12.1)
- Day 4** Review

¹⁵[notes/logarithms.html](https://www.math.uwaterloo.ca/~dgg322/notes/logarithms.html)

Week 10 (11/09-11/13)

Day 1 MIDTERM

Day 2 Arc Length and Area (12.2)

Day 3 Polar Coordinates (12.3)

Day 4 Area and Arc Length in polar coordinates (12.4)

Week 11 (11/16-11/20)

Day 1 Conic sections (12.5)

Day 2 Conic sections (cont) (12.5)

Day 3 TBA

Day 4 TBA

Week 12 (11/23-11/27)

Day 1 TBA

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Day 4 THANKSGIVING

Week 13 (12/01-12/04)

Day 1 TBA

Day 2 TBA

Day 3 TBA

Day 4 TBA

Week 14 (12/07-12/11)

Day 1 TBA

Day 2 TBA

Day 3 TBA

Day 4 TBA