Math 152 – Weekly Schedule (Updated August 2026)

Textbook: "Calculus: Early Transcendentals," 9th edition, by Stewart

Week 1

- Section 5.5 – The Substitution Rule
- Section 6.1 – Areas Between Curves

Week 2

- Section 6.2 – Volumes
- Section 6.3 – Volumes by Cylindrical Shells

Week 3

- Section 6.3 – Volumes by Cylindrical Shells cont.
- Section 6.4 – Work

Week 4

- Section 7.1 – Integration by Parts
- Section 7.2 – Trigonometric Integrals
- Exam 1 (Covering through Section 6.4)

Week 5

- Section 7.3 – Trigonometric Substitution
- Section 7.4 – Integration of Rational Functions by Partial Fractions

Week 6

- Section 7.4 – Integration of Rational Functions by Partial Fractions cont.
- Section 7.8 – Improper Integrals

Week 7

- Section 11.1 – Sequences
- Section 11.2 – Series

Week 8

- Section 11.2 – Series cont.
- Section 11.3 – The Integral Test and Estimates of Sums

Week 9

- Section 11.4 – The Comparison Tests
- Section 11.5 – Alternating Series and Absolute Convergence
- Exam 2 (Covering through Section 11.2)

Week 10

- Section 11.6 – The Ratio Test
- Section 11.8 – Power Series

Week 11

- Section 11.8 – Power Series cont.
- Section 11.9 – Representations of Functions as Power Series

Week 12

- Section 11.10 – Taylor and Maclaurin Series (excluding Taylor's Inequality and Binomial Series)
- Section 11.11 – Taylor Polynomials (excluding error estimates)

Week 13

- Section 10.1 – Curves Defined by Parametric Equations
- Section 10.2 – Calculus with Parametric Curves (arc length and surface area only)
- Exam 3 (Covering through Section 11.11)

Week 14

- Section 10.3 – Polar Coordinates
- Thanksgiving Break in the Fall semester

Week 15

- Section 10.3 – Polar Coordinates cont.
- Section 10.4 – Areas and Lengths in Polar Coordinates
- Review

Week 16

- Final Exams