

| LECTURE | DATE | TEXT § | TOPIC(S) |
|---------|--------|---------|--|
| 1 | Jan 17 | 5 | MyMathLab, Integration review I |
| 2 | Jan 18 | 5, 6 | Integration review II; Areas and volumes |
| 3 | Jan 22 | 6.3-6.4 | Volumes of solids of revolution |
| 4 | Jan 24 | 7.1 | Integration by parts |
| 5 | Jan 25 | 7.2 | Trigonometric integrals |
| 6 | Jan 29 | 7.3 | Trigonometric substitution I |
| 7 | Jan 31 | 7.3-7.4 | Trigonometric substitution II; Partial fractions I |
| 8 | Feb 1 | 7.4 | Partial fractions II |
| 9 | Feb 5 | 7.7 | Improper integrals I |
| 10 | Feb 7 | 7.7 | Improper integrals II |
| 11 | Feb 8 | 7.8 | Differential equations |
| 12 | Feb 12 | 7.6 | Numerical integration |
| 13 | Feb 14 | 8.1 | Sequences and series: Overview |
| 14 | Feb 15 | 8.2 | Sequences I |
| 15 | Feb 19 | – | <i>Exam review</i> |
| ☉ | Feb 21 | EXAM 1 | THURSDAY 2/21, 12-1:20pm, covers Lectures 1–11 |
| 16 | Feb 22 | 8.2 | Sequences II |
| 17 | Feb 26 | 8.3 | Series I |
| 18 | Feb 28 | 8.3-8.4 | Series II; Divergence test |
| 19 | Mar 1 | 8.4 | Integral test; p -series |
| 20 | Mar 5 | 8.5 | Ratio and root tests |
| 21 | Mar 7 | 8.5 | Comparison tests |
| 22 | Mar 8 | 8.6 | Alternating series I |
| 23 | Mar 12 | 8.6 | Alternating series II |
| 24 | Mar 14 | 9.1 | Polynomials I |
| 25 | Mar 15 | 9.1 | Polynomials II |
| 26 | Mar 26 | 9.2 | Properties of power series I |
| 27 | Mar 28 | 9.2 | Properties of power series II |
| 28 | Mar 29 | 9.3 | Taylor series I |
| 29 | Apr 2 | 9.3 | Taylor series II |
| 30 | Apr 4 | 9.3 | Taylor series III |
| 31 | Apr 5 | – | <i>Exam review</i> |
| ☉ | Apr 8 | EXAM 2 | MONDAY 4/8, 12-1:20pm, covers Lectures 13,14,16–27 |
| 32 | Apr 9 | 9.4 | Working with Taylor series I |
| 33 | Apr 11 | 9.4 | Working with Taylor series II |
| 34 | Apr 12 | 10.1 | Parametric equations |
| 35 | Apr 16 | – | Complex numbers |
| 36 | Apr 18 | 10.2 | Polar coordinates I |
| 37 | Apr 19 | 10.2 | Polar coordinates II |
| 38 | Apr 23 | 10.3 | Calculus in polar coordinates I |
| 39 | Apr 25 | 10.3 | Calculus in polar coordinates II |
| 40 | Apr 26 | – | <i>Exam review</i> |
| ☉ | May 3 | FINAL | FRIDAY 5/3, 8:30-10:30am, CUMULATIVE |