| Week Dates | Section & Topic | | Lecture, Page & Homework Assignments | | | | |
|------------------------------|-----------------|---|--------------------------------------|--------|--|--|--|
| Week 1 1/18 – 1/21 | 6.1: | Volumes Using Cross-Sections | 1 | p.371: | 5,9,15,17,21,28,31,32,35 | | |
| | 6.1: | Volumes Using Cross-Sections (cont.) | 2 | p.371: | 39,43,45,47,49,51,53,57 | | |
| | 6.2: | Volumes Using Cylindrical Shells | 3 | p.379: | 3,5,9,11,17,19,21,25,29,33 | | |
| Week 2 | 6.3: | Arc Length | 4 | p.386: | 1,3,5,7,9,21,31 | | |
| 1/24 - 1/28 | 6.4: | Areas of Surfaces of Revolution | 5 | p.391: | 9,13,15,17,19,21,24 | | |
| | 6.5: | Work | 6 | p.398: | 3,5,6,7,9,13,15,17,18 | | |
| Week 3 1/31 – 2/4 | 7.3: | Hyperbolic Functions | 7 | p.441: | 1,7,9,15,17,21,23,41,45,47,49,53, 55,57,81 | | |
| | 8.1: | Integration by Parts | 8 | p.459: | 4,5,11,13,23,27,29,31,33,35,45,47,53 | | |
| | 8.2: | Trigonometric Integrals | 9 | p.466: | 5,9,11,13,19,21,27,31,35,37,39,45,67,71 | | |
| Week 4 2/7 – 2/11 | L | REVIEW FOR EXAM #1 | 10 | L | STUDY FOR EXAM #1 | | |
| | L | MIDTERM EXAM I | : WEDNESDAY ~ FEBRUARY 9, 2011 | | | | |
| | 8.3: | Trigonometric Substitution | 11 | p.470: | 1,3,5,7,15,17,19,21 | | |
| | L | GO OVER EXAM 1 | | | | | |
| | 8.3: | Trigonometric Substitution (cont.) | 12 | p.470: | 23,25,29,31,35,37,39,43,53 | | |
| Week 5 2/14 – 2/18 | 8.4: | Integration of Rational Functions by Partial Fractions | 13 | p.479: | 3,5,7,9,13,14,17,19 | | |
| | 8.4: | Integration of Rational Functions by Partial Fractions (cont.) | 14 | p.479: | 23,25,27,29,35,37,39,45,55 | | |
| | L | MATLAB 1 | | L | DUE ON 3/3/11 | | |

| | 8.6: | Numerical Integration | 15 | p.493: | 3,7,13,17,21,28 | |
|------------------------------|----------------|---|----|--------|--|--|
| Week 6 2/21 – 2/25 | 8.7: | Improper Integrals | 16 | p.505: | 1,4,6,7,9,11,13,17,21,23,25,31 | |
| | 8.7: | Improper Integrals (cont.) | 17 | p.505: | 35,39,41,47,53,55,59,61,63,67,69 | |
| | 10.1: | Sequences | 18 | p.559: | 3,7,9,15,17,21,23,25,31,35,37,41, 45,49,51 | |
| Week 7 2/28 – 3/4 | 10.1: 10.2: | Sequences (cont.) and Infinite Series | 19 | p.559: | 53,61,67,69,73,79,81,87,89,99 and MATLAB 1 is due | |
| | 10.2: | Infinite Series | 20 | p.569: | 3,5,7,13,25,29,31,37,41,43,53,55, 59,61,65,69,71 | |
| | 10.3: | The Integral Test | 21 | p.575: | 4,6,9,13,17,19,23,25,27,29,33,35, 49,51 | |
| Week 8 | L. | REVIEW FOR EXAM #2~ 3/9/2011 | 22 | L | STUDY FOR EXAM #2 | |
| 3/7 – 3/11 | ۲. | MIDTERM EXAM II: WEDNESDAY ~ MARCH 9, 2011 | | | | |
| | 10.4: | Comparison Tests | 23 | p.580: | 1,3,5,19,21,25,27 | |
| | L | GO OVER EXAM 2 | | | | |
| | 10.4: 10.5: | Comparison Tests (cont.) and The Ratio and Root Tests | 24 | p.580: | 23,28,31,32,34,35,37,41,47,51 | |
| Week 9 3/14 - 3/18 | L | SPRING RECESS: MARCH 13-19, 2011 | | | | |
| Week 10 3/21 – 3/25 | 10.5: | The Ratio and Root Tests (cont.) | 25 | p.585: | 1,7,9,13,18,19,24,25,31,35,42,45, 55,57 | |
| | 10.6: | Alternating Series, Absolute and Conditional Convergence | 26 | p.591: | 1,7,9,10,11,13,15,19,21,23,25 | |
| | 10.6: | Alternating Series, Absolute and Conditional Convergence (cont.) | 27 | p.591: | 27,34,35,37,39,44,47,51,53 | |
| Week 11 <u>3/28</u> – 4/1 | 4 | MARCH 28, 2011: (M) LAST DAY TO WITHDRAW FROM THIS COURSE | | | | |
| | 10.7: | Power Series | 28 | p.600: | 3,5,9,11,15,19,21,23,27 | |

| | 10.7: | Power Series (cont.) | 29 | p.600: | 31,37,41,43,47,49 | | |
|------------------------|-----------------|---|----|--------|---|--|--|
| | 10.8: | Taylor and Maclaurin Series | 30 | p.606: | 1,3,8,9,11,15,18,25,27,31,35 | | |
| | L | MATLAB 2 | | L | DUE ON 4/8/11 | | |
| Week 12 4/4 - 4/8 | 10.9: | Convergence of Taylor Series | 31 | p.613: | 1,9,10,11,13,19,21,25 | | |
| | 10.9: 10:10: | Convergence of Taylor Series (cont.) and The Binomial Series and Applications of Taylor Series | 32 | p.613: | 29,35,37,39,41,43 | | |
| | 10.10: | The Binomial Series and Applications of Taylor Series (cont.) | 33 | p.620: | 1,3,5,13,23,25,29,31,35,39,45,49, 55 and MATLAB 2 is due | | |
| Week 13 4/11 - 4/15 | 4 | REVIEW FOR EXAM #3 ~ 4/13/2011 | 34 | | STUDY FOR EXAM #3 | | |
| | 4 | MIDTERM EXAM III: WEDNESDAY ~ APRIL 13, 2011 | | | | | |
| | 11.1: | Parametrizations of Plane Curves | 35 | p.634: | 1,3,5,7,9,16 | | |
| | L | GO OVER EXAM 3 | | | | | |
| | 11.1: 11.2: | Parametrizations of Plane Curves (cont.) and Calculus with Parametric Curves | 36 | p.634: | 20,21,25,27,31,33,39 | | |
| Week 14 4/18 - 4/22 | 11 .2 : | Calculus with Parametric Curves (cont.) | 37 | p.643: | 7,9,12,13,15,21,26,28,29,31,33,35 | | |
| | 11.3: | Polar Coordinates | 38 | p.648: | 1,5,7,13,17,23,27,32,37,47,51,59, 60,61 | | |
| <u>4/22</u> | L. | GOOD FRIDAY ~ NO CLASSES SCHEDULED | | | | | |
| Week 15 4/25 – 4/29 | 11.4: | Graphing in Polar Coordinates | 39 | p.652: | 1,7,9,13,17,19,25,27 | | |
| | 11.5: | Areas and Lengths in Polar Coordinates | 40 | p.656: | 1,7,11,13,15,17 | | |

| | 11.5: | Areas and Lengths in Polar Coordinates (cont.) | 41 | p.656: | 21,23,27,28 | | | |
|---------|---------------------------------|---|----|--------|----------------------|--|--|--|
| Week 16 | L. | REVIEW FOR FINAL EXAM | 42 | L | STUDY FOR FINAL EXAM | | | |
| | L. | TUE MAY 3 CLASSES FOLLOW A FRIDAY SCHEDULE | | | | | | |
| | ► 5/4 READING DAY | | | | | | | |
| Finals | FINAL EXAM WEEK: MAY 5-11, 2011 | | | | | | | |