## MATH 2414 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE AND READING MATERIAL | HOMEWORK |
|---|---|---|
| 1 | | |
| 1/16 | **No class. Campus is closed due to weather.** | |
| 1/18 | **Syllabus**<br>**2.1 Areas between Curves** | **HW1 due 2/13 by 11:59pm** |
| 2 | | |
| 1/23 | **2.2 Determining Volumes by Slicing** | **HW2 due 2/13 by 11:59pm** |
| 1/25 | **2.3 Volumes of Revolution: Cylindrical Shells** | **HW3 due 2/13 by 11:59pm** |
| 3 | | |
| 1/30 | **2.4 Arc Length of a Curve and Surface Area** | **HW4 due 2/13 by 11:59pm** |
| 2/1 | **2.5 Physical Applications** | **HW5 due 2/13 by 11:59pm** |

## MATH 2414 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE AND READING MATERIAL | HOMEWORK |
|---|---|---|
| 4 | | |
| 2/6 | **2.6 Moments and Centers of Mass** | **HW6 due 2/13 by 11:59pm** |
| 2/8 | **3.1 Integration by Parts** | **HW7 due 2/13 by 11:59pm** |
| 5 | | |
| 2/13 | **Test 1 Covers Chapter 2 and Section 3.1** **(Extra Credit for Test 1 is due this day at the beginning of class)** | **All homework for Test 1 are due on this day by 11:59pm** |
| 2/15 | **3.2 Trigonometric Integrals** | **HW8 due 3/27 by 11:59pm** |
| 6 | | |
| 2/20 | **3.3 Trigonometric Substitution** | **HW9 due 3/27 by 11:59pm** |
| 2/22 | **3.4 Partial Fractions** | **HW10 due 3/27 by 11:59pm** |

## MATH 2414 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE AND READING MATERIAL | HOMEWORK |
|---|---|---|
| 7 | | |
| 2/27 | **3.6 Numerical Integration** | **HW11 due 3/27 by 11:59pm** |
| 3/1 | **3.7 Improper Integrals** | **HW12 due 3/27 by 11:59pm** |
| 8 | | |
| 3/6 | **5.1 Sequences** <br><br> **5.2 Infinite Series-Part 1** | **HW13 due 3/27 by 11:59pm** |
| 3/8 | **5.2 Infinite Series-Part 2** <br><br> **5.3 The Divergence and Integral Tests** | **HW14 and HW15 due 3/27 by 11:59pm** |
| 9 | | |
| **Spring Break (Offices Closed): March 12-18** | | |
| 10 | | |
| 3/20 | **5.4 Comparison Tests** <br><br> **5.5 Alternating Series-Part 1** | **HW16 due 3/27 by 11:59pm** |

| Week Number | LECTURE AND READING MATERIAL | HOMEWORK |
|---|---|---|
| 3/22 | **5.5 Alternating Series-Part 2**<br><br>**Test 2 Review** | **HW17 due 4/24 by 11:59pm** |
| 11 | | |
| 3/27 | **Test 2 Covers 3.2 through 3.7, 5.1 through 5.4 (Extra Credit for Test 2 is due this day at the beginning of class)** | **All homework for Test 2 are due on this day by 11:59pm** |
| 3/29 | **5.6 Ratio and Root Tests** | **HW18 due 4/24 by 11:59pm** |
| 12 | | |
| 4/3 | **6.1 Power Series and Functions** | **HW19 due 4/24 by 11:59pm** |
| 4/5 | **6.2 Properties of Power Series** | **HW20 due 4/24 by 11:59pm** |
| | **Last day to drop and receive a "W" for 16-week Courses: Friday, April 6th** | |

## MATH 2414 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE AND READING MATERIAL | HOMEWORK |
|---|---|---|
| 13 | | |
| 4/10 | **6.3 Taylor and Maclaurin Series** | **HW21 due 4/24 by 11:59pm** |
| 4/12 | **6.4 Working with Taylor Series** | **HW22 due 4/24 by 11:59pm** |
| 14 | | |
| 4/17 | **7.1 Parametric Equations**<br><br>**7.2 Calculus of Parametric Curves-Part 1** | **HW23 due 5/8 by 11:59pm** |
| 4/19 | **7.2 Calculus of Parametric Curves-Part 2**<br><br>**Test 3 Review** | **HW24 due 5/8 by 11:59pm** |
| 15 | | |
| 4/24 | **Test 3 Covers 5.5, 5.6 and Chapter 6**<br>**(Extra Credit for Test 3 is due this day at the beginning of class)** | **All homework for Test 3 are due on this day by 11:59pm** |
| 4/26 | **7.3 Polar Coordinates** | **HW25 due 5/8 by 11:59pm** |

## MATH 2414 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE AND READING MATERIAL | HOMEWORK |
|---|---|---|
| 16 | | |
| 5/1 | **7.4 Area and Arc Length in Polar Coordinates** | **HW26 due 5/8 by 11:59pm** |
| 5/3 | **Final Exam Review** | |
| 17 | | |
| **The final exam is on Tuesday, May 8th from 11 to 12:50pm.** <br> **The final exam is COMPREHENSIVE.** <br> Extra Credit for the final is due this day at the beginning of class. <br> **Homework 23, 24, 25, and 26 are due this day by 11:59pm.** | | |

We will try to follow this schedule very closely. However, at times the course structure may need to be adjusted to provide for a better learning environment. Thus I reserve the right to make changes to the syllabus and this schedule. All changes will be announced in class.