# MATH 2420 – 1703 – SU2019 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE MATERIAL | HOMEWORK |
|---|---|---|
| 1 | | |
| JULY11 | **Syllabus**<br>**1.1 Definitions and Terminology**<br>**1.2 Initial-Value Problems** | **HW1 due 7/24** |
| 2 | | |
| JULY15 | **2.1 Solution Curves Without a Solution**<br>**2.2 Separable Equations** | **HW2 due 7/24** |
| JULY16 | **2.3 Linear Equations**<br>**2.4 Exact Equations** | **HW3 and HW 4due 7/24** |
| JULY 17 | **2.5 Solutions by Substitutions**<br>**4.1 Preliminary Theory—Linear Equations** | **HW5 and HW 6due 7/24** |
| JULY18 | **4.1 Preliminary Theory—Linear Equations (Cont.)**<br>**4.2 Reduction of Order** | **HW7 due 7/24** |
| 3 | | |
| JULY 22 | **4.3 Homogeneous Linear Equations with Constant Coefficients** | **HW8due 7/24** |
| JULY23 | **Review for Test 1** | |
| JULY 24 | **Test 1 covers sections 1.1 through 4.3.**<br>**(HW Set 1 is due at the beginning of class)** | |

# MATH 2420 – 1703 – SU2019 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE MATERIAL | HOMEWORK |
|---|---|---|
| JULY 25 | **4.4 Undetermined Coefficients—Superposition Approach** | **HW9 due 8/8** |
| 4 | | |
| JULY 29 | **4.6 Variation of Parameters**<br>**6.1-Part 1-Review of Power Series** | **HW10 due 8/8** |
| JULY30 | **6.1-Part 2-Power Series Solutions** | **HW11 due 8/8** |
| JULY 31 | **7.1 Definition of the Laplace Transform** | **HW12 due 8/8** |
| AUGUST 1 | **7.2 Inverse Transforms and Transforms of Derivatives** | **HW13 due 8/8** |
| 5 | | |
| AUGUST 5 | **7.3 Operational Properties I** | **HW14due 8/15** |
| AUGUST 6 | **7.4 Operational Properties II** | **HW15due 8/15** |
| AUGUST 7 | **Test 2 Review** | **First draft of term paper (20%) is due at the end of class on this day.** |

# MATH 2420 – 1703 – SU2019 – LECTURES, HOMEWORK AND EXAMS CALENDAR

| Week Number | LECTURE MATERIAL | HOMEWORK |
|---|---|---|
| AUGUST 8 | **Test 2 Covers sections 4.4 through 7.2**<br>**(HW Set 2 is due at the beginning of class)** | |
| 6 | | |
| AUGUST 12 | **8.1 Preliminary Theory—Linear Systems**<br>**8.2 Homogeneous Linear Systems** | **HW16 due 8/15** |
| AUGUST 13 | **8.2 Homogeneous Linear Systems (Cont.)**<br>**8.3 Nonhomogeneous Linear Systems** | **HW17 due 8/15** |
| AUGUST 14 | **8.3 Nonhomogeneous Linear Systems (Cont.)**<br>**Final Exam Review** | **HW18 due 8/15**<br>**Final draft of term paper (80%) is due at the end of class on this day** |
| AUGUST 15 | **Final Exam Covers 7.3 and 7.4 and Chapter 8 Sections 8.1 through 8.3.**<br>**HW Set 3 is due at the beginning of class** | |

We will try to follow the course calendar 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 the schedule. All changes will be announced in class.

The sections numbering follows Differential Equations with Boundary-Value Problems (7ed.) by Zill and Cullen.