MATH 112z: Calculus II, Fall 2019
Tentative Course Calendar

(updated November 4, 2019)

- **Week 1**

08/28, W: Sec 1.4 and 1.5: inverse, logarithmic, exponential functions

- **Week 2**

09/02, M: Holiday, no class.
09/04, W: Sec 7.1: integration by parts

- **Week 3**

09/09, M Sec 7.2: trig integrals
09/11, W Sec 7.3: trig substitution

- **Week 4**

09/16, M Sec 7.4: partial fraction
09/18, W Sec 7.7: approximate integration

- **Week 5**

09/23, M Sec 7.8: improper integral
09/25, W Sec 8.1: arc length; Sec 8.2: surface area.

- **Week 6**

09/30, M Sec 9.1: Modeling with differential equations; Sec 9.2: Direction field
10/02, W Midterm 1: covers topics from Week 1 to Week 5.

- **Week 7**

10/07, M Sec 9.2: Euler method; Sec 9.3 Separable equations
10/09, W Sec 9.4: Population growth; Sec 9.5: linear equation.

- **Week 8**

10/14, M Fall break, no class
10/16, W Sec 11.1: sequences.

- **Week 9**

10/21, M Sec 11.2: series.
10/23, W Sec 11.3: integral test

- **Week 10**

10/28, M Sec 11.4: comparison test.
10/30, W Sec 11.5: alternating series.

- **Week 11**

11/04, M Midterm 2: covers topics in Section 9.1-9.5, 11.1-11.4
11/06, W Sec 11.6: absolute convergence; ratio and root test

- **Week 12**

11/11, M Sec 11.7: practice, Sec 11.8: power series
11/13, W Sec 11.9: functions defined by power functions

- **Week 13**

11/18, M Sec 11.10: Taylor series, Maclaurin Series.
11/20, W Sec 11.11: Applications of Taylor series.

- **Week 14**

11/25, M Sec 10.1 and 10.2: parametric equations.
11/27, W Holiday, no class

- **Week 15**

12/02, M Midterm 3: covers topics in Section 11.5-11.11.
12/04, W Sec 10.3: polar coordinates

- **Week 16**

12/9, M Sec 10.4 and final review