# Math 1AA3/1ZB3 Course Calendar – Winter 2019

***(Timing is VERY approximate and WILL be subject to adjustment)***

***Updated Dec. 4th, 2018***

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| Week | Dates | Topic |
|---|---|---|
| Week #1 | January 7-11 | **Introduction** - Who, What, Where, Why, When?<br><br>**Lectures:**<br>- 7.5 Integral review<br>- 7.8 Improper Integrals |
| Week #2 | January 14-18 | **Lectures:**<br>- App. E Induction<br>- 11.1 Sequences *(Omit Defn. 2)*<br>- 11.2 Series |
| Week #3 | January 21-25 | **Lectures:**<br>- 11.2 Series (Continued)<br>- 11.3 Integral Test & Sum Estimates<br>- 11.4 Comparison Tests *(Omit sum estimates)* |
| Week #4 | Jan. 28-Feb. 1 | **Lectures:**<br>- 11.5 Alternating series<br>- 11.6 Absolute Convergence, Ratio & Root tests<br>- 11.8 Power Series |
| Week #5 | February 4-8 | **Lectures:**<br>- 11.9 Functions as Power Series *(Omit example 8b) )*<br>- 11.10 Taylor & MacLaurin *(Omit Mult. and Division of Series))* |
| Week #6 | February 11-15 | **Test #1 - Wednesday, February 13th: (Tentative date)**<br>***1.5hr (90 min) duration, in the evening. See Announcements for details***<br><br>**Lectures:**<br>- 11.11 Taylor Polynomials and Error *(Omit other applications)*<br>- 8.2 Surface Area of Revolution<br>- 8.3 Hydrostatic Force and Pressure *(Omit other applications)* |
| Week #7 | February 18-22 | ***READING WEEK, NO CLASSES*** |

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| Week #8 | Feb. 25-Mar. 1 | **Lectures:**<br>- 9.1 Intro. to ODE & Modeling<br>- 9.3 Separable ODE<br>- 3.8 Exponential Growth and Decay |
| Week #9 | March 4-8 | **Lectures:**<br>- 9.5 Linear ODE<br>- 10.1 Parametric Equations<br>- 10.2 Calculus of Parametric Curves |
| Week #10 | March 11-15 | **Lectures:**<br>- 10.2 Calculus of Parametric Curves (Continued)<br>- 10.3 Polar Functions<br>- 14.1 Multivariate Functions |
| Week #11 | March 18-22 | **Test #2 - Monday, March 18th: (Tentative date)**<br>***1.5hr (90 min) duration, in the evening. See Announcements for details***<br>**Lectures:**<br>- 14.1 Multivariate Functions (Continued)<br>- 2.3 Squeeze Theorem<br>- 14.2 Limits/Continuity in Three Dimensions<br>- 14.3 Partial Derivatives *(Omit the Cobb-Douglas Production Function)* |
| Week #12 | March 25-29 | **Lectures:**<br>- 14.4 Tangent Planes and Linear Approx.<br>- 14.5 Multivariate Chain Rule<br>- 14.6 Gradient and $D_u f$ *(Omit Tangent Planes and Gradients)* |
| Week #13 | April 1-5 | **Lectures:**<br>- 15.1 Multivariate Riemann Sums and Double Integrals<br>- 15.2 Integrals on General Regions (Type I and II) |
| Week #14 | April 8-9 | **Lectures:**<br>- Catch up and review |