

# MA 16010 Applied Calculus I

## Calendar (Polytechnic), Fall 2018

**Exam 1: Lesson 2-10 Exam 2: Lesson 11-18 Exam 3: Lesson 19-28**

| Date                                | Lesson             | Topics  |
|-------------------------------------|--------------------|---|
| 8/20 Mon<br>8/22 Wed                | 1-3                | Course Information; <b>CCI (no calculators)</b><br><b>Quiz (over HW 2 &amp; 3):</b> Finding Limits Numerically and One-Sided Limits; Finding Limits Graphically; <b>HW (1-3) due 10:00 PM</b>               |
| 8/27 Mon<br>8/29 Wed                | 4 & 5<br>6         | <b>Quiz:</b> Finding Limits Analytically; Continuity; <b>HW due 10:00 PM</b><br><b>Quiz:</b> The Derivative; <b>HW due 10:00 PM</b>   |
| 9/3 Mon<br>9/5 Wed                  | 7                  | <b>LABOR DAY NO CLASSES</b><br><b>Quiz:</b> Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function; <b>HW due 10:00 PM</b>            |
| 9/10 Mon<br>9/12 Wed                | 8 & 9<br>10        | <b>Quiz:</b> Instantaneous Rates of Change; The Product Rule; <b>HW due 10:00 PM</b><br><b>Quiz:</b> The Quotient Rule; Derivatives of Other Trigonometric Functions; <b>HW due 10:00 PM</b>                |
| 9/17 Mon<br>9/17 Mon<br>9/19 Wed    | 11 & 12            | Review for Exam<br><b>EXAM 1 Time: 8:00-9:00pm Location: ELLT 116</b><br><b>Quiz:</b> The Chain Rule; <b>HW due 10:00 PM</b>  |
| 9/24 Mon<br>9/26 Wed                | 13 & 14<br>15      | <b>Quiz:</b> Derivative of the Natural Logarithmic Function; Higher Order Derivatives; Implicit Differentiation; <b>HW due 10:00 PM</b><br><b>Quiz:</b> Related Rates (HW 15); <b>HW due 10:00 PM</b>       |
| 10/1 Mon<br>10/3 Wed                | 16<br>17 & 18      | <b>Quiz:</b> Related Rates (HW 16); <b>HW due 10:00 PM</b><br><b>Quiz:</b> Relative Extrema and Critical Numbers; Increasing and Decreasing Functions and the First Derivative Test; <b>HW due 10:00 PM</b> |
| 10/8 Mon<br>10/10 Wed               | 19                 | <b>FALL BREAK NO CLASSES</b><br><b>Quiz:</b> Concavity, Inflection Points and the Second Derivative Test; <b>HW due 10:00 PM</b>  |
| 10/15 Mon<br>10/15 Mon<br>10/17 Wed | 20 & 21            | Review for Exam<br><b>EXAM 2 Time: 6:30-7:30pm Location: ELLT 116</b><br><b>Quiz:</b> Absolute Extrema on an Interval; Graphical Interpretation of Derivatives; <b>HW due 10:00 PM</b>                      |
| 10/22 Mon<br>10/24 Wed              | 22 & 23<br>24      | <b>Quiz:</b> Limits at Infinity; A Summary of Curve Sketching; <b>HW due 10:00 PM</b><br><b>Quiz:</b> Optimization (HW 24); <b>HW due 10:00 PM</b>  |
| 10/29 Mon<br>10/31 Wed              | 25 & 26<br>27 & 28 | <b>Quiz:</b> Optimization (HW 25 & 26); <b>HW due 10:00 PM</b><br><b>Quiz:</b> Antiderivatives and Indefinite Integration; <b>HW due 10:00 PM</b>   |
| 11/5 Mon<br>11/7 Wed                | 29 & 30<br>31 & 32 | <b>Quiz:</b> Area and Riemann Sums; Definite Integrals; <b>HW due 10:00 PM</b><br><b>Quiz:</b> The Fundamental Theorem of Calculus; <b>HW due 10:00 PM</b>  |

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| Date                                | Lesson | Topics   |
|-------------------------------------|--------|--|
| 11/12 Mon<br>11/12 Mon<br>11/14 Wed | 33-35  | Review for Exam<br><b>EXAM 3 Time: 6:30-7:30pm Location: ELLT 116</b><br><b>Quiz:</b> Numerical Integration; Exponential Growth; Exponential Decay; <b>HW</b><br><b>due 10:00 PM</b> |
| 11/19 Mon<br>11/21 Wed              |        | <b>NO CLASSES</b><br>THANKSGIVING (NO CLASSES)   |
| 11/26 Mon<br>11/28 Wed              |        | Work on Final Project<br>Work on Final Project   |
| 12/3 Mon<br>12/5 Wed                |        | Work on Final Project<br>Work on Final Project; <b>CCI (no calculators)</b>  |
| 12/10-12/15                         |        | WEEK OF FINAL EXAMS  |