# MA 16010 Applied Calculus I

# Calendar (Traditional and Distance), Spring 2017

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

| Date | Lesson | Topics |
|---|---|---|
| 1/9 Mon | 1 | Course Information; Quiz 1 |
| 1/11 Wed | 2 | Finding Limits Numerically; CCI |
| 1/13 Fri | 3 | One-sided Limits; Finding Limits Graphically |
| | | |
| 1/16 Mon | | Martin Luther King Jr. Day (No Classes) |
| 1/18 Wed | 4 | Finding Limits Analytically |
| 1/20 Fri | 5 | Continuity |
| | | |
| 1/23 Mon | 6 | The Derivative |
| 1/25 Wed | 7 | Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function |
| 1/27 Fri | 8 | Instantaneous Rates of Change |
| | | |
| 1/30 Mon | 9 | The Product Rule |
| 2/1 Wed | 10 | The Quotient Rule; Derivatives of the Other Trigonometric Functions |
| **2/2 Thur** | | **EXAM 1 Time: 8:00-9:00pm Location: TBA** |
| 2/3 Fri | | No Classes |
| | | |
| 2/6 Mon | 11 | The Chain Rule |
| 2/8 Wed | 12 | The Chain Rule; Derivative of the Natural Logarithmic Function |
| 2/10 Fri | 13 | Higher Order Derivatives |
| | | |
| 2/13 Mon | 14 | Implicit Differentiation |
| 2/15 Wed | 15 | Related Rates |
| 2/17 Fri | 16 | Related Rates |
| | | |
| 2/20 Mon | 17 | Relative Extrema and Critical Numbers |
| 2/22 Wed | 18 | Increasing and Decreasing Functions and the First Derivative Test |
| 2/24 Fri | 19 | Concavity, Inflection Points and the Second Derivative Test |
| | | |
| 2/27 Mon | | REVIEW FOR EXAM 2 |
| **2/28 Tues** | | **EXAM 2 Time: 8:00-9:00pm Location: TBA** |
| 3/1 Wed | | No Classes |
| 3/3 Fri | 20 | Absolute Extrema on an Interval |
| | | |
| 3/6 Mon | 21 | Graphical Interpretation of Derivatives |
| 3/8 Wed | 22 | Limits at Infinity |
| 3/10 Fri | 23 | A Summary of Curve Sketching |
| | | |
| 3/13 Mon | | Spring Break (No Classes) |
| 3/15 Wed | | Spring Break (No Classes) |
| 3/17 Fri | | Spring Break (No Classes) |
| | | |
| 3/20 Mon | 24 | Optimization |
| 3/22 Wed | 25 | Optimization |
| 3/24 Fri | 26 | Optimization |

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| Date | Lesson | Topics |
|---|---|---|
| 3/27 Mon | 27 | Antiderivatives and Indefinite Integration |
| 3/29 Wed | 28 | Antiderivatives and Indefinite Integration |
| 3/31 Fri | 29 | Area and Riemann Sums |
| | | |
| 4/3 Mon | | REVIEW FOR EXAM 3 |
| **4/4 Tues** | | **EXAM 3 Time: 6:30-7:30pm Location: TBA** |
| 4/5 Wed | | No Classes |
| 4/7 Fri | 30 | Definite Integrals |
| | | |
| 4/10 Mon | 31 | The Fundamental Theorem of Calculus |
| 4/12 Wed | 32 | The Fundamental Theorem of Calculus |
| 4/14 Fri | 33 | Numerical Integration |
| | | |
| 4/17 Mon | 34 | Exponential Growth |
| 4/19 Wed | 35 | Quiz 15; CCI |
| 4/21 Fri | 36 | Exponential Decay |
| | | |
| 4/24 Mon | | REVIEW FOR FINAL EXAM |
| 4/26 Wed | | REVIEW FOR FINAL EXAM |
| 4/28 Fri | | REVIEW FOR FINAL EXAM |
| | | |
| 5/1-5/6 | | WEEK OF FINAL EXAMS |