# Calculus I Course Schedule
# (Fall 2016 dates)

Textbook: Larson & Edwards, *Calculus*, 10th Edition (eBook with WebAssign bundle)

NOTE: this schedule is subject to change.

| Week / Classes / WebAssign / Quiz | Sections / Topics / Test |
|---|---|
| Week 1 (#1-2) **LESSON 01, 02**<br>Mon, Aug 29; Wed, Aug 31 | **Precalculus Appendix**: Review Precalculus<br>**1.2** Finding Limits Graphically and Numerically<br>**1.3** Evaluating Limits Analytically<br>**1.4** Continuity and One-Sided Limits |
| Week 2 (#3) Wed, Sept 7 **LESSON 03, 04**<br>**NO CLASS Mon, Sept 5** | **1.5** Infinite Limits<br>**3.5** Limits at Infinity |
| Week 3 (#4-5) **LESSON 05**<br>Mon, Sept 12; Wed, Sept 14 **QUIZ #1** | **2.1** The Derivative and the Tangent Line Problem<br>**2.2** Basic Differentiation Rules and Rates of Change |
| Week 4 (#6-7) **LESSON 06, 07**<br>Mon, Sept 19; Wed, Sept 21 | **2.2** Basic Differentiation Rules and Rates of Change<br>**2.3** Product and Quotient Rules and Higher-Order Derivatives<br>**2.4** The Chain Rule |
| Week 5 (#8-9) **LESSON 08, 09**<br>Mon, Sept 26; Wed, Sept 28 **QUIZ #2** | **2.5** Implicit Differentiation<br>**2.6** Related Rates |
| Week 6 (#10-11) **LESSON 10, 11**<br>Wed, Oct 5; Thu, Oct 6 (Mon schedule)<br>**NO CLASS Mon, Oct 3 QUIZ #3** | **3.1** Extrema on an Interval<br>**3.3** Increasing and Decreasing Functions and the First Derivative Test<br>**3.4** Concavity and the Second Derivative Test |
| Week 7<br>**NO CLASS Mon, Oct 10 & Wed, Oct 12** | |
| Week 8 (#12-13) **LESSON 12, 13**<br>Mon, Oct 17; Wed, Oct 19 **QUIZ #4**<br>**Lesson 12, 13** | **3.6** Curve Sketching<br>**3.7** Optimization Problems (Geometric)<br>**3.8** Newton's Method (if time) |
| Week 9 (#14-15)<br>Mon, Oct 24; Wed, Oct 26 | **MIDTERM REVIEW**<br>**MIDTERM EXAM** |
| Week 10 (#16-17) **LESSON 14, 15**<br>Mon, Oct 31; Wed, Nov 2 | **App. F**: Business Applications<br>**3.2** Rolle's Theorem and the Mean Value Theorem |
| Week 11 (#18-19) **LESSON 16, 17**<br>Mon, Nov 7; Wed, Nov 9 **QUIZ #5**<br>**NOV 10 DROP DEADLINE** | **3.9** Differentials<br>**4.1** Antiderivatives and Indefinite Integration<br>**4.5** Integration by Substitution |
| Week 12 (#20-21) **LESSON 18**<br>Mon, Nov 14; Wed, Nov 16 | **4.5** Integration by Substitution (#1: indefinite)<br>**4.2** Area |
| Week 13 (#22-23) **LESSON 19, 20**<br>Mon, Nov 21; Wed, Nov 23 | **4.2** Area<br>**4.3** Riemann Sums and Definite Integrals |
| Week 14 (#24-25) **LESSON 21**<br>Mon, Nov 28; Wed, Nov 30 **QUIZ #6** | **4.4** The Fundamental Theorem of Calculus<br>**4.5** Integration by Substitution (#2: definite) |
| Week 15 (#26-27) **LESSON 22-24**<br>Mon, Dec 5; Wed, Dec 7 **QUIZ #7** | **5.1** The Natural Logarithmic Function: Differentiation<br>**5.2** The Natural Logarithmic Function: Integration<br>**5.4** Exponential Functions: Differentiation and Integration<br>**5.5** Bases Other Than *e* and Applications |
| Week 16 (#28)<br>Mon, Dec 12 **QUIZ #8** | **FINAL EXAM REVIEW** |
| **FINAL EXAM** | **FINAL EXAM TENATIVELY SCHEDULED FOR MON, DEC 19** |