MA 16010 Applied Calculus I

Calendar (IMPACT), Spring 2016

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

Date	Lesson	Topics
1/13 Wed	1	Course Information; Quiz 1
1/15 Fri	2 & 3	Finding Limits Numerically; One-sided Limits; Finding Limits Graphically; CCI; Worksheet 1
1/20 Wed	4 & 5	Finding Limits Analytically; Continuity; PW 1; Worksheet 2
1/22 Fri	6	The Derivative; PW 2; Worksheet 3; Quiz 2
1/27 Wed	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function; PW 3; Worksheet 4
1/29 Fri	8	Instantaneous Rates of Change; PW 4; Worksheet 5; Quiz 3
2/3 Wed	9	The Product Rule; PW 5; Worksheet 6
2/5 Fri	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions; PW 6; Worksheet 7; Quiz 4
2/8 Mon		**EXAM 1 Time: 6:30-7:30pm Location: TBA**
2/10 Wed	11	The Chain Rule; PW 7; Worksheet 8
2/12 Fri	12 & 13	The Chain Rule; Derivative of the Natural Logarithmic Function; Higher Order Derivatives; PW 8; Worksheet 9; Quiz 5
2/17 Wed	14 & 15	Implicit Differentiation; Related Rates; PW 9; Worksheet 10
2/19 Fri	16	Related Rates; PW 10; Worksheet 11; Quiz 6
2/24 Wed	17 & 18	Relative Extrema and Critical Numbers; Increasing and Decreasing Functions and the First Derivative Test; PW 11; Worksheet 12
2/26 Fri	19 & 20	Concavity, Inflection Points and the Second Derivative Test; Absolute Extrema on an Interval; PW 12; Worksheet 13
3/2 Wed		OPTIONAL REVIEW FOR EXAM 2
3/3 Thur		**EXAM 2 Time: 6:30-7:30pm Location: TBA**
3/4 Fri	21	Graphical Interpretation of Derivatives; PW 13; Worksheet 14
3/9 Wed	22 & 23	Limits at Infinity; A Summary of Curve Sketching; PW 14; Worksheet 15; Quiz 7
3/11 Fri		No Classes
3/16 Wed		Spring Break (No Classes)
3/18 Fri		Spring Break (No Classes)
3/23 Wed	24	Optimization; PW 15; Worksheet 16
3/25 Fri	25 & 26	Optimization; PW 16; Worksheet 17; Quiz 8
3/30 Wed	27	Antiderivatives and Indefinite Integration; PW 17; Worksheet 18
4/1 Fri	28	Antiderivatives and Indefinite Integration; PW 18; Worksheet 19; Quiz 9
4/6 Wed		OPTIONAL REVIEW FOR EXAM 3
4/7 Thur		**EXAM 3 Time: 6:30-7:30pm Location: TBA**
4/8 Fri	29 & 30	Area and Riemann Sums; Definite Integrals; PW 19; Worksheet 20

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Date	Lesson	Topics
4/13 Wed	31 & 32	The Fundamental Theorem of Calculus; PW 20; Worksheet 21
4/15 Fri	33 & 34	Numerical Integration; Exponential Growth PW 21; Worksheet 22; Quiz 10
4/20 Wed	35	Quiz 11; CCI
4/22 Fri	36	Exponential Decay Worksheet 23
4/27 Wed		REVIEW FOR FINAL EXAM
4/29 Fri		REVIEW FOR FINAL EXAM
5/2-5/7		WEEK OF FINAL EXAMS