MA 16010 Applied Calculus I

Calendar (IMPACT), Fall 2017

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

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

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Date	Lesson	Topics
11/13 Mon		**EXAM 3 Time: 6:30-7:30pm Location: ELLT 116**
11/15 Wed	31	The Fundamental Theorem of Calculus; Worksheet 23
11/17 Fri	32	The Fundamental Theorem of Calculus; Worksheet 24
11/22 Wed		THANKSGIVING (NO CLASSES)
11/24 Fri		THANKSGIVING (NO CLASSES)
11/29 Wed	33	Numerical Integration; Worksheet 25
12/1 Fri	34	Exponential Growth Worksheet 26
12/6 Wed	35	Exponential Decay Worksheet 27; CCI (no calculators)
12/8 Fri		REVIEW FOR FINAL EXAM
12/11-12/16		WEEK OF FINAL EXAMS