MA 16010 Applied Calculus I

Calendar (IMPACT), Spring 2018

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

Date	Lesson	Topics
1/8 Mon	1	Course Information; CCI (no calculators); Worksheet 1
1/10 Wed	2 & 3	Finding Limits Numerically; One-sided Limits; Finding Limits Graphically; Worksheet 2
1/15 Mon		Martin Luther King Jr. Day (No Classes)
1/17 Wed	4 & 5	Finding Limits Analytically; Continuity; Worksheet 3
1/22 Mon	6	The Derivative; Worksheet 4
1/24 Wed	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function; Worksheet 5
1/29 Mon	8 & 9	Instantaneous Rates of Change; The Product Rule; Worksheet 6
1/31 Wed	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions; Worksheet 7
2/5 Mon		Review for Exam 1
2/6 Tues		**EXAM 1 Time: 6:30-7:30pm**
2/7 Wed	11	The Chain Rule; Worksheet 8
2/12 Mon	12 & 13	The Chain Rule; Derivative of the Natural Logarithmic Function; Higher Order Derivatives; Worksheet 9
2/14 Wed	14	Implicit Differentiation; Worksheet 10
2/19 Mon	15	Related Rates; Worksheet 11
2/21 Wed	16	Related Rates; Worksheet 12
2/26 Mon	17 & 18	Relative Extrema and Critical Numbers; Increasing and Decreasing Functions and the First Derivative Test; Worksheet 13
2/28 Wed	19	Concavity, Inflection Points and the Second Derivative Test; Worksheet 14
3/1 Thur		**EXAM 2 Time: 8:00-9:00pm**
3/5 Mon	20	Absolute Extrema on an Interval; Worksheet 15
3/7 Wed	21	Graphical Interpretation of Derivatives; Worksheet 16
3/12 Mon		Spring Break (No Classes)
3/14 Wed		Spring Break (No Classes)
3/19 Mon	22 & 23	Limits at Infinity; A Summary of Curve Sketching; Worksheet 17
3/21 Wed	24 & 25	Optimization; Worksheet 18
3/26 Mon	25 & 26	Optimization; Worksheet 19
3/28 Wed	27	Antiderivatives and Indefinite Integration; Worksheet 20
4/2 Mon	28	Antiderivatives and Indefinite Integration; Worksheet 21
4/4 Wed	29 & 30	Area and Riemann Sums; Definite Integrals; Worksheet 22

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Date	Lesson	Topics
4/9 Mon		Review for Exam 3
4/9 Mon		**EXAM 3 Time: 6:30-7:30pm**
4/11 Wed	31	The Fundamental Theorem of Calculus; Worksheet 23
4/16 Mon	32	The Fundamental Theorem of Calculus; Worksheet 24
4/18 Wed	33	Numerical Integration; Worksheet 25
4/23 Mon	34	Exponential Growth Worksheet 26
4/25 Wed	35	Exponential Decay Worksheet 27; CCI (no calculators)
4/30-5/5		WEEK OF FINAL EXAMS