MA 16010 Applied Calculus I

Calendar (IMPACT), Spring 2020

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

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

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Date	Lesson	Topics
4/6 Mon	28	Antiderivatives and Indefinite Integration; Worksheet 21
4/8 Wed		Review for Exam 3
4/9 Thur		**EXAM 3 Time: 6:30-7:30pm**
4/13 Mon	29 & 30	Area and Riemann Sums; Definite Integrals; Worksheet 22
4/15 Wed	31 & 32	Definite Integrals; The Fundamental Theorem of Calculus; Worksheet 23
4/20 Mon	33	The Fundamental Theorem of Calculus; Worksheet 24
4/22 Wed	34	Numerical Integration; Worksheet 25
4/27 Mon	35 & 36	Exponential Growth; Exponential Decay Worksheet 26
4/29 Wed		Review for the Final
5/4-5/9		WEEK OF FINAL EXAMS