MA 16010 Applied Calculus I

Calendar (Traditional and Online), Fall 2022

Exam 1: Lessons 2-10 Exam 2: Lessons 11-19 Exam 3: Lessons 20-28

Date	Lesson	Topics
8/22 Mon	1	Course Information; Review
8/24 Wed	2	Finding Limits Numerically; One-sided Limits; Finding Limits Graphically
8/26 Fri	3	Finding Limits Analytically
8/29 Mon	4	Continuity
8/31 Wed	5	The Derivative
9/2 Fri	6	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
9/5 Mon		**Labor Day (No Classes)**
9/7 Wed	7	Instantaneous Rates of Change
9/9 Fri	8	The Product Rule
9/12 Mon	9	The Quotient Rule; Derivatives of the Other Trigonometric Functions
9/14 Wed	10	The Chain Rule
9/16 Fri		Review for Exam 1
9/19 Mon		**No Classes**
9/19 Mon		**Exam 1 Time: 6:30-7:30pm Location: ELLT 116**
9/21 Wed	11	The Chain Rule; Derivative of the Natural Logarithmic Function
9/23 Fri	12	Higher Order Derivatives
9/26 Mon	13	Implicit Differentiation
9/28 Wed	14	Related Rates
9/30 Fri	15	Related Rates
10/3 Mon	16	Relative Extrema and Critical Numbers
10/5 Wed	17	Increasing and Decreasing Functions and the First Derivative Test
10/7 Fri	18	Concavity; Inflection Points and the Second Derivative Test
10/10 Mon		**October Break (No Classes)**
10/12 Wed	19	Absolute Extrema on an Interval
10/14 Fri	20	Graphical Interpretation of Derivatives
10/17 Mon		Review for Exam 2
10/17 Mon		**Exam 2 Time: 6:30-7:30pm Location: ELLT 116**
10/19 Wed	21	Limits at Infinity
10/21 Fri	22	A Summary of Curve Sketching
10/24 Mon	23	Optimization
10/26 Wed	24	Optimization
10/28 Fri	25	Optimization
10/31 Mon	26	Antiderivatives and Indefinite Integration
11/2 Wed	27	Antiderivatives and Indefinite Integration
11/4 Fri	28	Area and Riemann Sums

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Date	Lesson	Topics
11/7 Mon		Review for Exam 3
11/8 Tues		**Exam 3 Time: 6:30-7:30pm Location: ELLT 116**
11/9 Wed		**No Classes**
11/11 Fri	29	Definite Integrals
11/14 Mon	30	Definite Integrals
11/16 Wed	31	The Fundamental Theorem of Calculus
11/18 Fri	32	The Fundamental Theorem of Calculus
11/21 Mon		**No Classes**
11/23 Wed		**Thanksgiving Vacation (No Classes)**
11/25 Fri		**Thanksgiving Vacation (No Classes)**
11/28 Mon	33	Numerical Integration
11/30 Wed	34	Exponential Growth
12/2 Fri	35	Exponential Decay
12/5 Mon		Review for Final Exam
12/7 Wed		Review for Final Exam
12/9 Fri		Review for Final Exam
12/12-12/17		**Week of Final Exams**