MA 16010 Applied Calculus I

Calendar (Traditional and Online), Fall 2021

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

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

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Date	Lesson	Topics
11/8 Mon		Review for Exam 3
11/9 Tues		**Exam 3 Time: 6:30-7:30pm Location: ELLT 116**
11/10 Wed		**No Classes**
11/12 Fri	29	Area and Riemann Sums
11/15 Mon	30	Definite Integrals
11/17 Wed	31	Definite Integrals
11/19 Fri	32	The Fundamental Theorem of Calculus
11/22 Mon		**No Classes**
11/24 Wed		**Thanksgiving Vacation (No Classes)**
11/26 Fri		**Thanksgiving Vacation (No Classes)**
11/29 Mon	33	The Fundamental Theorem of Calculus
12/1 Wed	34	Numerical Integration
12/3 Fri	35	Exponential Growth
12/6 Mon	36	Exponential Decay
12/8 Wed		Review for Final Exam
12/10 Fri		Review for Final Exam
12/13-12/18		**Week of Final Exams**