

MA 16010 Applied Calculus I

Calendar Spring 2021

Exam 1: Lesson 2-10 Exam 2: Lesson 11-18

Exam 3: Lesson 19-28 Exam 4/Final Exam: Lesson 29-36

Date	Lesson	Topics
1/20 Wed	1	Course Information
1/22 Fri	2	Finding Limits Numerically; One-sided Limits
1/25 Mon	3	Finding Limits Graphically
1/27 Wed	4	Finding Limits Analytically
1/29 Fri	5	Continuity
2/1 Mon	6	The Derivative
2/3 Wed	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
2/5 Fri	8	Instantaneous Rates of Change
2/8 Mon	9	The Product Rule
2/10 Wed	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions
2/12 Fri		Review for Exam 1
2/15 Mon		Exam 1 (Online Exam 1 Window: 9am on Sun 2/14 to 9am on Wed 2/17)
2/17 Wed		Reading Day
2/19 Fri	11	The Chain Rule
2/22 Mon	12	The Chain Rule; Derivative of the Natural Logarithmic Function
2/24 Wed	13	Higher Order Derivatives
2/26 Fri	14	Implicit Differentiation
3/1 Mon	15	Related Rates
3/3 Wed	16	Related Rates
3/5 Fri	17	Relative Extrema and Critical Numbers
3/8 Mon	18	Increasing and Decreasing Functions and the First Derivative Test
3/10 Wed		Review for Exam 2
3/12 Fri		Exam 2 (Online Exam 2 Window: 9am on Thur 3/11 to 9am on Sun 3/14)
3/15 Mon	19	Concavity, Inflection Points and the Second Derivative Test
3/17 Wed	20	Absolute Extrema on an Interval
3/19 Fri	21	Graphical Interpretation of Derivatives
3/22 Mon	22	Limits at Infinity
3/24 Wed	23	A Summary of Curve Sketching
3/26 Fri	24	Optimization
3/29 Mon	25	Optimization
3/31 Wed	26	Optimization
4/2 Fri	27	Antiderivatives and Indefinite Integration

MA 16010 Applied Calculus I

Calendar Spring 2021

Exam 1: Lesson 2-10 **Exam 2: Lesson 11-18**
Exam 3: Lesson 19-28 **Exam 4/Final Exam: Lesson 29-36**

Date	Lesson	Topics
4/5 Mon	28	Antiderivatives and Indefinite Integration
4/7 Wed		Review for Exam 3
4/9 Fri		Exam 3 (Online Exam 3 Window: 9am on Thur 4/8 to 9am on Sun 4/11)
4/12 Mon	29	Area and Riemann Sums
4/14 Wed	30	Definite Integrals
4/16 Fri	31	Definite Integrals
4/19 Mon	32	The Fundamental Theorem of Calculus
4/21 Wed	33	The Fundamental Theorem of Calculus
4/23 Fri	34	Numerical Integration
4/26 Mon	35	Exponential Growth
4/28 Wed	36	Exponential Decay
4/30 Fri		Review for Exam 4/Final Exam
5/3-5/8		Week of Final Exams