MA 16010 Applied Calculus I

Calendar, Spring 2022

Exam 1: Lessons 2-10 Exam 2: Lessons 11-17 Exam 3: Lessons 18-28

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

MA 16010 Applied Calculus I

Calendar, Spring 2022

Exam 1: Lessons 2-10 Exam 2: Lessons 11-17 Exam 3: Lessons 18-28

Date	Lesson	Topics
4/4 Mon		Review for Exam 3
4/6 Wed		**No Classes**
4/6 Wed		**Exam 3 Time: 6:30-7:30pm Location: ELLT 116**
4/8 Fri	29	Area and Riemann Sums
4/11 Mon	30	Definite Integrals
4/13 Wed	31	Definite Integrals
4/15 Fri	32	The Fundamental Theorem of Calculus
4/18 Mon	33	The Fundamental Theorem of Calculus
4/20 Wed	34	Numerical Integration
4/22 Fri	35	Exponential Growth
4/25 Mon	36	Exponential Decay
4/27 Wed		Review for Final Exam
4/29 Fri		Review for Final Exam
5/2-5/7		**Week of Final Exams**