

# MA 16010 Applied Calculus I

## Calendar (IMPACT), Spring 2019

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

Date	Lesson	Topics
1/7 Mon	1	Course Information; <b>Worksheet 1</b>
1/9 Wed	2 & 3	Finding Limits Numerically; One-sided Limits; Finding Limits Graphically; <b>Worksheet 2</b>
1/14 Mon	4 & 5	Finding Limits Analytically; Continuity; <b>Worksheet 3</b>
1/16 Wed	6	The Derivative; <b>Worksheet 4</b>
1/21 Mon		<b>Martin Luther King Jr. Day (No Classes)</b>
1/23 Wed	7	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function; <b>Worksheet 5</b>
1/28 Mon	8 & 9	Instantaneous Rates of Change; The Product Rule; <b>Worksheet 6</b>
1/30 Wed	10	The Quotient Rule; Derivatives of the Other Trigonometric Functions; <b>Worksheet 7</b>
2/4 Mon	11	The Chain Rule; <b>Worksheet 8</b>
2/5 Tues		<b>EXAM 1 Time: 8:00-9:00pm</b>
2/6 Wed	12 & 13	The Chain Rule; Derivative of the Natural Logarithmic Function; Higher Order Derivatives; <b>Worksheet 9</b>
2/11 Mon	14	Implicit Differentiation; <b>Worksheet 10</b>
2/13 Wed	15	Related Rates; <b>Worksheet 11</b>
2/18 Mon	16	Related Rates; <b>Worksheet 12</b>
2/20 Wed	17 & 18	Relative Extrema and Critical Numbers; Increasing and Decreasing Functions and the First Derivative Test; <b>Worksheet 13</b>
2/25 Mon	19	Concavity, Inflection Points and the Second Derivative Test; <b>Worksheet 14</b>
2/27 Wed		Review for Exam 2
2/28 Thur		<b>EXAM 2 Time: 6:30-7:30pm</b>
3/4 Mon	20	Absolute Extrema on an Interval; <b>Worksheet 15</b>
3/6 Wed	21	Graphical Interpretation of Derivatives; <b>Worksheet 16</b>
3/11-3/16		<b>SPRING BREAK</b>
3/18 Mon	22 & 23	Limits at Infinity; A Summary of Curve Sketching; <b>Worksheet 17</b>
3/20 Wed	24 & 25	Optimization; <b>Worksheet 18</b>
3/25 Mon	25 & 26	Optimization; <b>Worksheet 19</b>
3/27 Wed	27	Antiderivatives and Indefinite Integration; <b>Worksheet 20</b>

# MA 16010 Applied Calculus I

## Calendar (IMPACT), Spring 2019

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

Date	Lesson	Topics
4/1 Mon 4/3 Wed 4/4 Thur	28	Antiderivatives and Indefinite Integration; <a href="#">Worksheet 21</a> Review for Exam 3 <b>EXAM 3 Time: 6:30-7:30pm</b>
4/8 Mon 4/10 Wed	29 & 30 31 & 32	Area and Riemann Sums; Definite Integrals; <a href="#">Worksheet 22</a> Definite Integrals; The Fundamental Theorem of Calculus; <a href="#">Worksheet 23</a>
4/15 Mon 4/17 Wed	33 34	The Fundamental Theorem of Calculus; <a href="#">Worksheet 24</a> Numerical Integration; <a href="#">Worksheet 25</a>
4/22 Mon 4/24 Wed	35 & 36	Exponential Growth; Exponential Decay <a href="#">Worksheet 26</a> Review for the Final
4/29-5/4		WEEK OF FINAL EXAMS