

## MA 16100 Spring 2024 - Course Calendar

Week 1	Monday	Tuesday	Wednesday	Thursday	Friday
	Jan 8	Jan 9	Jan 10	Jan 11	Jan 12
	<b>LESSON 0</b>	<b>NO Quiz</b>	<b>LESSON 1</b>	<b>NO Quiz</b>	<b>LESSON 2</b>
	1.1 Review of Functions 1.2 Representing Functions	<b>HW DUE: None</b>	1.3 Inverse, Exponential and Logarithmic Functions	<b>HW DUE: Lessons 0, 1</b>	1.4 Trigonometric Functions and Their Inverses
Week 2	Monday	Tuesday	Wednesday	Thursday	Friday
	Jan 15	Jan 16	Jan 17	Jan 18	Jan 19
	<b>NO CLASS</b>	<b>Quiz 1</b> Lesson 0	<b>LESSON 3</b>	<b>Quiz 2</b> Lessons 1, 2	<b>LESSON 4</b>
	<b>NO CLASS</b>	<b>HW DUE: Lesson 2</b>	2.1 The Idea of Limits 2.2 Definitions of Limits	<b>HW DUE: Lesson 3</b>	2.3 Techniques for Computing Limits
Week 3	Monday	Tuesday	Wednesday	Thursday	Friday
	Jan 22	Jan 23	Jan 24	Jan 25	Jan 26
	<b>LESSON 5</b>	<b>Quiz 3</b> Lessons 3, 4	<b>LESSON 6</b>	<b>Quiz 4</b> Lesson 5	<b>LESSON 7</b>
	2.4 Infinite Limits	<b>HW DUE: Lessons 4, 5</b>	2.5 Limits at Infinity	<b>HW DUE: Lesson 6</b>	2.6 Continuity
Week 4	Monday	Tuesday	Wednesday	Thursday	Friday
	Jan 29	Jan 30	Jan 31	Feb 1	Feb 2
	<b>LESSON 8</b>	<b>Quiz 5</b> Lessons 6, 7	<b>LESSON 9</b>	<b>Quiz 6</b> Lesson 8	<b>LESSON 10</b>
	3.1 Introducing the Derivative	<b>HW DUE: Lessons 7, 8</b>	3.2 The Derivative as a Function	<b>HW DUE: Lesson 9</b>	3.3 Rules of Differentiation

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<b>Week 5</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Feb 5	Feb 6	Feb 7	Feb 8	Feb 9
	<b>REVIEW</b>	<b>NO QUIZ</b> Exam Review	<b>LESSON 11</b>	<b>Quiz 7</b> Lesson 9	<b>LESSON 12</b>
	<b>Review</b> Lessons 1-9	<b>EXAM 1</b> 8:00 pm	<b>3.4</b> The Product and Quotient Rules	<b>HW DUE:</b> <b>Lessons 10, 11</b>	<b>3.5</b> Derivatives of Trigonometric Functions
<b>Week 6</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Feb 12	Feb 13	Feb 14	Feb 15	Feb 16
	<b>LESSON 13</b>	<b>Quiz 8</b> Lessons 10, 11	<b>LESSON 14</b>	<b>Quiz 9</b> Lessons 12, 13	<b>LESSON 15</b>
	<b>3.6</b> Derivatives as rates of change <b>3.7</b> Chain Rule	<b>HW DUE:</b> <b>Lessons 12, 13</b>	<b>3.7</b> Chain Rule	<b>HW DUE:</b> <b>Lesson 14</b>	<b>3.8</b> Implicit Differentiation
<b>Week 7</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Feb 19	Feb 20	Feb 21	Feb 22	Feb 23
	<b>LESSON 16</b>	<b>Quiz 10</b> Lesson 14	<b>LESSON 17</b>	<b>Quiz 11</b> Lessons 15, 16	<b>LESSON 18</b>
	<b>3.9</b> Derivatives of Logarithmic and Exponential Functions	<b>HW DUE:</b> <b>Lessons 15, 16</b>	<b>3.10</b> Derivatives of Inverse Trigonometric Functions	<b>HW DUE:</b> <b>Lesson 17</b>	<b>3.11</b> Related Rates
<b>Week 8</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Feb 26	Feb 27	Feb 28	Feb 29	Mar 1
	<b>LESSON 19</b>	<b>Quiz 10</b> Lesson 17	<b>LESSON 20</b>	<b>Quiz 11</b> Lessons 18, 19	<b>LESSON 21</b>
	<b>3.11</b> Related Rates	<b>HW DUE:</b> <b>Lessons 18, 19</b>	<b>4.1</b> Maxima and Minima	<b>HW DUE:</b> <b>Lesson 20</b>	<b>4.2</b> Mean Value Theorem <b>4.3</b> What Derivatives Tell Us

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<b>Week 9</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Mar 4	Mar 5	Mar 6	Mar 7	Mar 8
	<b>REVIEW</b>	<b>NO QUIZ</b> Exam Review	<b>LESSON 22</b>	<b>Quiz 14</b> Lesson 20	<b>NO CLASS</b>
	<b>Review</b> Lessons 10-20	<b>EXAM 2</b> 6:30 pm	<b>4.3</b> What Derivatives Tell Us	<b>HW DUE:</b> <b>Lessons</b> <b>21</b>	<b>NO CLASS</b>
<b>Week 10</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	<b>Spring Break</b> Mar 11-Mar 15				
<b>Week 11</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Mar 18	Mar 19	Mar 20	Mar 21	Mar 22
	<b>LESSON 23</b>	<b>Quiz 15</b> Lessons 21, 22	<b>LESSON 24</b>	<b>Quiz 16</b> Lesson 23	<b>LESSON 25</b>
	<b>4.4</b> Graphing Functions	<b>HW DUE:</b> <b>Lessons</b> <b>22, 23</b>	<b>4.4</b> Graphing Functions	<b>HW DUE:</b> <b>Lesson</b> <b>24</b>	<b>4.5</b> Optimization Problems
<b>Week 12</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Mar 25	Mar 26	Mar 27	Mar 28	Mar 29
	<b>LESSON 26</b>	<b>Quiz 17</b> Lessons 24, 25	<b>LESSON 27</b>	<b>Quiz 18</b> Lessons 26	<b>LESSON 28</b>
	<b>4.5</b> Optimization Problems	<b>HW DUE:</b> <b>Lessons</b> <b>25, 26</b>	<b>4.6</b> Linear Approximation and Differentials	<b>HW DUE:</b> <b>Lesson</b> <b>27</b>	<b>4.7</b> L'Hopital's Rule

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<b>Week 13</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Apr 1	Apr 2	Apr 3	Apr 4	Apr 5
	<b>REVIEW</b>	<b>NO QUIZ</b> Exam Review	<b>LESSON 29</b>	<b>Quiz 19</b> Lessons 27, 28	<b>LESSON 30</b>
	<b>Review</b> Lessons 21-28	<b>EXAM 3</b> 6:30 pm	<b>4.9</b> Antiderivatives	<b>HW DUE:</b> <b>Lessons</b> <b>28, 29</b>	<b>5.1</b> Approximating Areas Under Curves
<b>Week 14</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Apr 8	Apr 9	Apr 10	Apr 11	Apr 12
	<b>LESSON 31</b>	<b>Quiz 20</b> Lessons 29, 30	<b>LESSON 32</b>	<b>Quiz 21</b> Lessons 31	<b>LESSON 33</b>
	<b>5.2</b> Definite Integrals	<b>HW DUE:</b> <b>Lessons</b> <b>30, 31</b>	<b>5.3</b> Fundamental Theorem of Calculus	<b>HW DUE:</b> <b>Lesson</b> <b>32</b>	<b>5.4</b> Working with Integrals <b>5.5</b> Substitution Rule
<b>Week 15</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Apr 15	Apr 16	Apr 17	Apr 18	Apr 19
	<b>LESSON 34</b>	<b>Quiz 20</b> Lessons 32, 33	<b>LESSON 35</b>	<b>Quiz 21</b> Lesson 34	<b>REVIEW</b>
	<b>5.5</b> Substitution Rule	<b>HW DUE:</b> <b>Lessons</b> <b>33, 34</b>	<b>7.2</b> Exponential Models	<b>HW DUE:</b> <b>Lesson</b> <b>35</b>	<b>Review</b>
<b>Week 16</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
	Apr 22	Apr 23	Apr 24	Apr 25	Apr 26
	<b>REVIEW</b>	<b>NO QUIZ</b> Exam Review	<b>REVIEW</b>	<b>NO CLASS</b>	<b>NO CLASS</b>
	<b>Review</b>	<b>HW DUE:</b> <b>None</b>	<b>Review</b>	<b>HW DUE:</b> <b>None</b>	<b>NO CLASS</b>