

# Course Calendar

## MA 16100 - FALL 2022

Week	Day	Class Activities	Outside of Class Activities
<b>1</b>	<b>MON</b> 8/22	<b>Lesson 0</b> What should you know about this course?	<b>Reading</b> Sec 1.1: Review of Functions Sec 1.2: Representing Functions
	<b>TUE</b> 8/23	<b>Recitation</b> No Quiz	
	<b>WED</b> 8/24	<b>Lesson 1</b> How do you represent growth and decay?	<b>Reading</b> Sec 1.3: Inverse, Exponential, and Logarithmic Functions
	<b>THU</b> 8/25	<b>Recitation</b> Quiz 0 (Syllabus Quiz)	<b>Homework</b> HW0 (Lesson 0) HW1 (Lesson 1)
	<b>FRI</b> 8/26	<b>Lesson 2</b> What are the points on the unit circle?	<b>Reading</b> Sec 1.4: Trigonometric Functions and Their Inverses
<b>2</b>	<b>MON</b> 8/29	<b>Lesson 3</b> What happens as you get infinitesimally close?	<b>Reading</b> Sec 2.1: The Idea of Limits Sec 2.2: Definition of Limits
	<b>TUE</b> 8/30	<b>Recitation</b> Quiz 1 (Lessons 0-1)	<b>Homework</b> HW2 (Lesson 2) HW3 (Lesson 3)
	<b>WED</b> 8/31	<b>Lesson 4</b> How do you compute a limit?	<b>Reading</b> Sec 2.3: Techniques for Computing Limits
	<b>THU</b> 9/1	<b>Recitation</b> Quiz 2 (Lessons 2-3)	<b>Homework</b> HW4 (Lesson 4)
	<b>FRI</b> 9/2	<b>Lesson 5</b> What happens if a limit approaches infinity?	<b>Reading</b> Sec 2.4: Infinite Limits  *Last day to cancel without it appearing on your record

<b>3</b>	<b>MON</b> <b>9/5</b>	<b>Labor Day Holiday</b> No Class	
	<b>TUE</b> <b>9/6</b>	<b>Recitation</b> Quiz 3 (Lesson 4)	<b>Homework</b> HW5 (Lesson 5)
	<b>WED</b> <b>9/7</b>	<b>Lesson 6</b> What happens in the limit as $x$ goes to infinity?	<b>Reading</b> Sec 2.5: Limits at Infinity
	<b>THU</b> <b>9/8</b>	<b>Recitation</b> Quiz 4 (Lesson 5)	<b>Homework</b> HW6 (Lesson 6)
	<b>FRI</b> <b>9/9</b>	<b>Lesson 7</b> What does it mean for a function to be continuous?	<b>Reading</b> Sec 2.6: Continuity
<b>4</b>	<b>MON</b> <b>9/12</b>	<b>Lesson 8</b> How can we measure the steepness of a curve?	<b>Reading</b> Sec 3.1: introducing the Derivative
	<b>TUE</b> <b>9/13</b>	<b>Recitation</b> Quiz 5 (Lessons 6)	<b>Homework</b> HW7 (Lesson 7) HW8 (Lesson 8)
	<b>WED</b> <b>9/14</b>	<b>Lesson 9</b> The derivative is also a function	<b>Reading</b> Sec 3.2: The Derivative as a Function
	<b>THU</b> <b>9/15</b>	<b>Recitation</b> Quiz 6 (Lessons 7-8)	<b>Homework</b> HW9 (Lesson 9)
	<b>FRI</b> <b>9/16</b>	<b>Lesson 10</b> How do you compute the derivative?	<b>Reading</b> Sec 3.3: Rules of Differentiation
<b>5</b>	<b>MON</b> <b>9/19</b>	<b>Review</b> How to prepare for Exam 1?	*Last day to withdraw with a W with instructor and advisor signature
	<b>TUE</b> <b>9/20</b>	<b>Recitation</b> Exam 1 Review (No Quiz)	<b>Exam 1</b> (covers Lessons 0-10) 6:30-7:30pm in ELLT
	<b>WED</b> <b>9/21</b>	<b>Lesson 11</b> How do you compute the derivative of a product of functions?	<b>Reading</b> Sec 3.4: The Product and Quotient Rules
	<b>THU</b> <b>9/22</b>	<b>Recitation</b> Quiz 7 (Lesson 9)	<b>Homework</b> HW10 (Lesson 10) HW11 (Lesson 11)
	<b>FRI</b> <b>9/23</b>	<b>Lesson 12</b> How do you compute the derivative of a trigonometric function?	<b>Reading</b> Sec 3.5: Derivatives of Trigonometric Functions

<b>6</b>	<b>MON</b> <b>9/26</b>	<b>Lesson 13</b> How do you compute the derivative of a composite function?	<b>Reading</b> Sec 3.6: Derivatives as Rates of Change Sec 3.7: Chain Rule
	<b>TUE</b> <b>9/27</b>	<b>Recitation</b> Quiz 8 (Lessons 10-11)	<b>Homework</b> HW12 (Lesson 12) HW13 (Lesson 13)
	<b>WED</b> <b>9/28</b>	<b>Lesson 14</b> More applications of the Chain Rule.	<b>Reading</b> Sec 3.7: Chain Rule
	<b>THU</b> <b>9/29</b>	<b>Recitation</b> Quiz 9 (Lessons 12-13)	<b>Homework</b> HW14 (Lesson 14)
	<b>FRI</b> <b>9/30</b>	<b>Lesson 15</b> How do you compute derivatives of implicit functions?	<b>Reading</b> Sec 3.8: Implicit Differentiation
<b>7</b>	<b>MON</b> <b>10/3</b>	<b>Lesson 16</b> Why is $e$ the base for the natural exponent?	<b>Reading</b> Sec 3.9: Derivatives of Logarithmic and Exponential Functions
	<b>TUE</b> <b>10/4</b>	<b>Recitation</b> Quiz 10 (Lesson 14)	<b>Homework</b> HW15 (Lesson 15) HW16 (Lesson 16)
	<b>WED</b> <b>10/5</b>	<b>Lesson 17</b> What is the derivative of arcsine?	<b>Reading</b> Sec 3.10: Derivatives of Inverse Trigonometric Functions
	<b>THU</b> <b>10/6</b>	<b>Recitation</b> Quiz 11 (Lessons 15-16)	<b>Homework</b> HW17 (Lesson 17)
	<b>FRI</b> <b>10/7</b>	<b>Lesson 18</b> How are rates of change related to each other?	<b>Reading</b> Sec 3.11: Related Rates
<b>8</b>	<b>MON</b> <b>10/10</b>	<b>October Break</b> No Class	
	<b>TUE</b> <b>10/11</b>	<b>October Break</b> No Class	
	<b>WED</b> <b>10/12</b>	<b>Lesson 19</b> More examples of related rates	<b>Reading</b> Sec 3.11: Related Rates
	<b>THU</b> <b>10/13</b>	<b>Recitation</b> Quiz 12 (Lesson 17)	<b>Homework</b> HW18 (Lesson 18) HW19 (Lesson 19)
	<b>FRI</b> <b>10/14</b>	<b>Lesson 20</b> How can you find the maximum of a function using the derivative?	<b>Reading</b> Sec 4.1: Maxima and Minima
	<b>SAT</b> <b>10/15</b>		<b>MyLab Math Scheduled Maintenance</b> (MLM will be down 1am-9am ET)

9	<b>MON</b> 10/17	<b>Review</b> How to prepare for Exam 2?	
	<b>TUE</b> 10/18	<b>Recitation</b> Exam 2 Review (No Quiz)	<b>Exam 2</b> (covers Lessons 11-20) 6:30-7:30pm in ELLT
	<b>WED</b> 10/19	<b>Lesson 21</b> What can the derivative tell us about a function?	<b>Reading</b> Sec 4.2: Mean Value Theorem Sec 4.3: What Derivatives Tell Us
	<b>THU</b> 10/20	<b>Recitation</b> Quiz 13 (Lessons 18-19)	<b>Homework</b> HW20 (Lesson 20) HW21 (Lesson 21)
	<b>FRI</b> 10/21	<b>Lesson 22</b> More things that derivatives tell us.	<b>Reading</b> Sec 4.3: What Derivatives Tell Us
10	<b>MON</b> 10/24	<b>Lesson 23</b> How can you graph a function using the derivative?	<b>Reading</b> Sec 4.4: Graphing Functions
	<b>TUE</b> 10/25	<b>Recitation</b> Quiz 14 (Lesson 20-21)	<b>Homework</b> HW22 (Lesson 22) HW23 (Lesson 23) *Last day to withdraw from a course
	<b>WED</b> 10/26	<b>Lesson 24</b> More techniques for graphing functions	<b>Reading</b> Sec 4.4: Graphing Functions
	<b>THU</b> 10/27	<b>Recitation</b> Quiz 15 (Lessons 22-23)	<b>Homework</b> HW24 (Lesson 24)
	<b>FRI</b> 10/28	<b>Lesson 25</b> How do you find an optimal solution using the derivative?	<b>Reading</b> Sec 4.5: Optimization Problems
11	<b>MON</b> 10/31	<b>Lesson 26</b> More techniques for solving optimization problems	<b>Reading</b> Sec 4.5: Optimization Problems
	<b>TUE</b> 11/1	<b>Recitation</b> Quiz 16 (Lesson 24)	<b>Homework</b> HW25 (Lesson 25) HW26 (Lesson 26)
	<b>WED</b> 11/2	<b>Lesson 27</b> How can you approximate the value of a function using the derivative?	<b>Reading</b> Sec 4.6: Linear Approximation and Differentials
	<b>THU</b> 11/3	<b>Recitation</b> Quiz 17 (Lessons 25-26)	<b>Homework</b> HW27 (Lesson 27)
	<b>FRI</b> 11/4	<b>Lesson 28</b> How can you evaluate indeterminate limits using the derivative?	<b>Reading</b> Sec 4.7: l'Hopital's Rule

<b>12</b>	<b>MON</b> 11/7	<b>Lesson 29</b> What is the inverse of a derivative?	<b>Reading</b> Sec 4.9: Antiderivatives
	<b>TUE</b> 11/8	<b>Recitation</b> Quiz 18 (Lesson 27)	<b>Homework</b> HW28 (Lesson 28) HW29 (Lesson 29)
	<b>WED</b> 11/9	<b>Lesson 30</b> How do you approximate the area under a curve?	<b>Reading</b> Sec 5.1: Approximating Areas Under Curves
	<b>THU</b> 11/10	<b>Recitation</b> Quiz 19 (Lessons 28-29)	<b>Homework</b> HW30 (Lesson 30)
	<b>FRI</b> 11/11	<b>Lesson 31</b> Computing the area under a curve exactly using definite integrals	<b>Reading</b> Sec 5.2: Definite Integrals
<b>13</b>	<b>MON</b> 11/14	<b>Review</b> How to prepare for Exam 3?	
	<b>TUE</b> 11/15	<b>Recitation</b> Exam 3 Review (No Quiz)	<b>Exam 3</b> (covers Lessons 20-30) 6:30-7:30pm in ELLT
	<b>WED</b> 11/16	<b>Lesson 32</b> What is the Fundamental Theorem of Calculus?	<b>Reading</b> Sec 5.3: Fundamental Theorem of Calculus
	<b>THU</b> 11/17	<b>Recitation</b> Quiz 20 (Lesson 30)	<b>Homework</b> HW31 (Lesson 31) HW32 (Lesson 32)
	<b>FRI</b> 11/18	<b>Lesson 33</b> How do you work with integrals?	<b>Reading</b> Sec 5.4: Working with Integrals Sec 5.5 Substitution Rule
<b>14</b>	<b>MON</b> 11/21	<b>No Class</b> (Class canceled due to Exam 1)	
	<b>TUE</b> 11/22	<b>No Class</b> (Class canceled due to Exam 2)	
	<b>WED</b> 11/23	<b>Thanksgiving Break</b> (No Class)	
	<b>THU</b> 11/24	<b>Thanksgiving Break</b> (No Class)	
	<b>FRI</b> 11/25	<b>Thanksgiving Break</b> (No Class)	
	<b>SAT</b> 11/26		<b>MyLab Math Scheduled Maintenance</b> (MLM will be down 1am-9am ET)

<b>15</b>	<b>MON</b> <b>11/28</b>	<b>Lesson 34</b> How can you transform an integral into something easier to compute?	<b>Reading</b> Sec 5.5: Substitution Rule
	<b>TUE</b> <b>11/29</b>	<b>Recitation</b> Quiz 21 (Lessons 31-32)	<b>Homework</b> HW33 (Lesson 33) HW34 (Lesson 34)
	<b>WED</b> <b>11/30</b>	<b>Lesson 35</b> How can you model exponential growth?	<b>Reading</b> Sec 7.2: Exponential Models
	<b>THU</b> <b>12/1</b>	<b>Recitation</b> Quiz 22 (Lessons 33-34)	<b>Homework</b> HW35 (Lesson 35)
	<b>FRI</b> <b>12/2</b>	<b>Review</b> How to prepare for the Final Exam?	
<b>16</b>	<b>MON</b> <b>12/5</b>	<b>Review</b> How to prepare for the Final Exam?	<b>Quiet Week</b> - The University mandates that there are no homework, quizzes, or exams this week
	<b>TUE</b> <b>12/6</b>	<b>Recitation</b> Final Exam Review (No Quiz)	
	<b>WED</b> <b>12/7</b>	<b>Review</b> How to prepare for the Final Exam?	
	<b>THU</b> <b>12/8</b>	<b>Recitation</b> Final Exam Review (No Quiz)	
	<b>FRI</b> <b>12/9</b>	<b>No Class</b> (Class canceled due to Exam 3)	
<b>17</b>	<b>TUE</b> <b>12/13</b>	<b>Final Exam</b> 8:00am – 10:00am  Rooms: LILY 1105, PHYS 114, PHYS 223, STEW 183 (Loeb Playhouse), STEW 314.	The Final Exam will take place in multiple rooms.  Please read all announcements and emails to find your exam location.