

## MA 113 Fall 2012 Calendar of Events

	Lecture <i>Recitation</i>	Class activity	Due Dates	Optional Textbook Exercises
Week 1	Wed, 22-Aug	1.1-1.3: Linear & quadratic functions, basic functions		§1.1-23, 43, 45, 47, 49, 51, 53, 54, 64, 65; §1.2-9, 15, 17, 19, 22, 25, 31, 37, 39, 41, 51 §1.3-27, 28, 31, 33, 34, 35
	<i>Thur, 23-Aug</i>	<i>Worksheet 1</i>		
	Fri, 24 Aug	1.6: Exp and log functions	WW 01	§1.6-3, 4, 7, 9, 19, 21, 23, 25, 27, 29, 33, 42
Week 2	Mon, 27-Aug	2.1: Limits, Rates of Change, and Tangent Lines		§2.1-5, 6, 7, 13, 17, 23, 25, 27
	<i>Tues, 28-Aug</i>	<i>Worksheet 2</i> <i>Assignment #1 distributed</i>		
	Wed, 29-Aug	2.2: Limits: A Numerical and Graphical Approach	WW 02	§2.2-2, 4, 5, 6, 21, 24, 28, 34, 47, 49, 53, 62
	<i>Thurs, 30-Aug</i>	<i>Worksheet 3, Quiz 1</i>		
	Fri, 31-Aug	2.3: Basic Limit Laws		§2.3-11, 13, 15, 17, 19, 21, 26, 27, 29, 31, 33
Week 3	<b>Mon, 3-Sept</b>	<b>Labor Day</b>		
	<i>Tues, 4-Sept</i>	<i>Worksheet 4</i>	WW 03	
	Wed, 5-Sept	2.4: Limits and Continuity	<i>Assignment 1 due in class</i>	§2.4-2, 3, 4, 5, 13, 17, 19, 27, 33, 47, 51, 53, 81, 84
	<i>Thurs, 6-Sept</i>	<i>Worksheet 5, Quiz 2</i> <i>Assignment #2 distributed</i>		
	Fri, 7-Sept	2.5: Evaluating Limits Algebraically	WW 04	§2.5-3, 7, 9, 11, 21, 23, 25, 29, 36, 49, 53
Week 4	Mon, 10-Sept	1.4. Trigonometric Functions 1.5. Inverse Functions (inv trig)		§1.4-3, 6, 7, 16, 19, 21, 25, 27, 45, 46, 47 §1.5-17, 29-34, 39, 41
	<i>Tues, 11-Sept</i>	<i>Worksheet 6</i>	WW 05	
	Wed, 12-Sept	2.6: Trigonometric Limits		§2.6-3, 4, 5, 13, 17, 21, 23, 25, 31, 37, 45, 51, 52
	<i>Thurs, 13-Sept</i>	<i>Worksheet 7, Quiz 3</i>	WW 06	
	Fri, 14-Sept	2.7: Limits at Infinity	<i>Assignment 2 due in class</i>	§2.7-1, 3, 6, 7, 11, 13, 21, 37, 38, 43
Week 5	Mon, 17-Sept	Review		
	<i>Tues, 18-Sept</i>	<i>Worksheet 8</i>		
	<b>***** Tues, 18-Sept Exam 1 (5:00 – 7:00 PM) Your room will be assigned *****</b>			
	Wed, 19-Sept	2.8: Intermediate Value Theorem		§2.8-1, 6, 9, 11, 15, 17, 21, 22, 25
	<i>Thurs, 20-Sept</i>	<i>Worksheet 9</i> <i>Assignment #3 distributed</i>		
	Fri, 21-Sept	3.1: Definition of the Derivative	WW 07	§3.1-1, 4, 7, 11, 14, 20, 35, 37, 50, 57, 67, 68
Week 6	Mon, 24-Sept	3.2: The Derivative as a Function		§3.2-7, 9, 16, 19, 29, 33, 35, 37, 43, 47, 51, 53, 66, 68, 73, 75, 84
	<i>Tues, 25-Sept</i>	<i>Worksheet 10</i>		
	Wed, 26-Sept	3.3: Product and Quotient Rules		§3.3-1, 3, 7, 9, 11, 15, 16, 19, 20, 23, 25, 29, 31, 38, 39, 41, 49, 50, 59
	<i>Thurs, 27-Sept</i>	<i>Worksheet 11, Quiz 4</i>	WW 08	
	Fri, 28-Sept	3.4: Rates of Change 3.5: Higher Derivatives	<i>Assignment 3 due in class</i>	§3.4-5, 7, 11, 21, 25, 26, 27, 28, 32, 34, 38, 43, 45 §3.5-1, 6, 11, 14, 19, 27, 31, 35, 39, 40, 41, 45
Week 7	Mon, 1-Oct	3.6: Trigonometric Functions		§3.6-1, 5, 7, 15, 19, 21, 25, 27, 31, 51
	<i>Tues, 2-Oct</i>	<i>Worksheet 12,</i> <i>Assignment #4 distributed</i>	WW 09	
	Wed, 3-Oct	3.7: The Chain Rule		§3.7-3, 5, 7, 23, 25, 27, 29, 31, 47, 49, 77, 79, 80
	<i>Thurs, 4-Oct</i>	<i>Worksheet 13, Quiz 5</i>	WW 10	
	Fri, 5-Oct	3.8: Derivatives of Inverse Functions 3.9: Derivatives (only $e^x$ and $\ln(x)$ )		§3.8-3, 11, 15, 19, 21, 23, 25, 37 §3.9-1, 3, 21, 23, 25, 31, 35, 80
Week 8	Mon, 8-Oct	3.10 Implicit Differentiation		§3.10-1, 9, 15, 19, 23, 29, 31, 39, 41, 54
	<i>Tues, 9-Oct</i>	<i>Worksheet 14</i>	WW 11	
	Wed, 10-Oct	3.11. Related Rates		§3.11-1, 5, 6, 7, 8, 9, 11, 13, 17, 19, 25
	<i>Thurs, 11-Oct</i>	<i>Worksheet 15, Quiz 6</i>	WW 12	
	Fri, 12-Oct	Review	<i>Assignment 4 due in class</i>	

Week 9	Mon, 15-Oct	Review		
	<i>Tues, 16-Oct</i>	<i>Worksheet 16</i>		
	<b>***** Tues, 16-Oct Exam 2 (5:00 – 7:00 PM) Your room will be assigned *****</b>			
	Wed, 17-Oct	4.1. Linear Approximation and Applications		§4.1–1, 3, 9, 11, 17, 19, 23, 27, 28, 38, 49, 55
	<i>Thurs, 18-Oct</i>	<i>Worksheet 17, Assignment #5 distributed</i>		
Fri, 19-Oct	4.2. Extreme Values	WW 13	§4.2–1, 3, 5, 7, 9, 11, 17, 21, 23, 41, 46, 54, 63, 64	
Week 10	Mon, 22-Oct	4.3. The Mean Value Theorem and Monotonicity		§4.3–1, 11, 13, 15, 17, 19, 21, 23, 25, 35, 37, 55, 58
	<i>Tues, 23-Oct</i>	<i>Worksheet 18</i>	WW 14	
	Wed, 24-Oct	4.4. The Shape of a Graph		§4.4–1, 2, 3, 5, 13, 15, 17, 20, 21, 22, 41, 45, 58, 59
	<i>Thurs, 25-Oct</i>	<i>Worksheet 19, Quiz 7</i>	WW 15	
	Fri, 26-Oct	4.5. L'Hôpital's Rule (w/o Differences)	<i>Assignment 5 due in class</i>	§4.5–3, 5, 21, 23, 25, 26, 27, 33, 45, 63
Week 11	Mon, 29-Oct	4.7. Applied Optimization		§4.7–1, 3, 5, 7, 9
	<i>Tues, 30-Oct</i>	<i>Worksheet 20 Assignment #6 distributed</i>	WW 16	
	Wed, 31-Oct	4.7. Applied Optimization		§4.7–15, 16, 42, 43
	<i>Thurs, 1-Nov</i>	<i>Worksheet 21, Quiz 8</i>	WW 17	
Fri, 2-Nov	4.8. Newton's Method		§4.8–1, 3, 7, 9, 17, 20, 23	
Week 12	Mon, 5-Nov	4.9. Antiderivatives		§4.9–2, 5, 8, 20, 23, 25, 33, 39, 40, 65, 70
	<i>Tues, 6-Nov</i>	<i>Worksheet 22</i>	WW 18	
	Wed, 7-Nov	5.1. Approximating and Computing Area		§5.1–1, 5, 6, 7, 11, 13, 16, 18, 21, 23, 25, 27, 29, 45, 47
	<i>Thurs, 8-Nov</i>	<i>Worksheet 23, Quiz 9</i>	WW 19	
Fri, 9-Nov	5.2. The Definite Integral	<i>Assignment 6 due in class</i>	§5.2–1, 5, 7, 9, 13, 15, 16, 33, 37, 63, 65	
Week 13	Mon, 12-Nov	Review		
	<i>Tues, 13-Nov</i>			
	<b>***** Tues, 13-Nov, Exam 3 (5:00 – 7:00 PM) Your room will be assigned *****</b>			
	Wed, 14-Nov	5.3-5.4 The Fundamental Theorem of Calculus, Part I and Part II		§5.3–1, 11, 13, 19, 21, 35, 37, 43, 59, 61 §5.4–1, 3, 7, 21, 29, 39, 45
	<i>Thurs, 15-Nov</i>	<i>Worksheet 24</i>	WW 20	
Fri, 16-Nov	5.5. Net Change as the Integral of a Rate		§5.5–1, 3, 5, 7, 10, 16, 19, 21	
Week 14	Mon, 19-Nov	5.6. Substitution Method		§5.6–7, 9, 11, 27, 31, 39, 59, 65, 74
	<i>Tues, 20-Nov</i>	<i>Worksheet 25</i>		
<b>Thanksgiving Break - Academic Holiday</b>				
Week 15	Mon, 26-Nov	5.7 Further transcendental functions (arctan and arcsin)	WW 21	§5.7–5, 9, 13, 15, 37, 41, 43, 47, 53
	<i>Tues, 27-Nov</i>	<i>Worksheet 26, Quiz 10</i>		
	Wed, 28-Nov	5.8. Exponential Growth and Decay		§5.8–1, 2, 5, 10, 11, 12, 15, 23, 24
	<i>Thurs, 29-Nov</i>	<i>Worksheet 27</i>	WW 22	
Fri, 30-Nov	6.1 Area between curves.		§6.1–1, 3, 4, 13, 15, 19, 21, 27, 32, 35, 55	
Week 16	Mon, 3-Dec	Review		
	<i>Tues, 4-Dec</i>	<i>Worksheet 28</i>	WW 23	
	Wed, 5-Dec	Review		
	<i>Thurs, 6-Dec</i>	<i>Worksheet 29</i>		
Fri, 7-Dec	Review			
<b>***** FINAL EXAM, Wed, 12-Dec (8:30 – 10:30 PM) Your room will be assigned *****</b>				