

MATH 110: Course Outline, 2015W

Week	Dates	Topic	Sections	Notes
1.1	Sept. 8 - 11	Welcome, Why Calculus?	0.2	No HW No workshop No class Sept 8
1.2	Sept. 14 - 18	Lines in the Plane, Functions	0.2, 0.3, 0.4	WS1
1.3	Sept. 21 - 25	Tangent Lines, Velocities, Growth	1.0	Q1.1, WS2
1.4	Sept. 28 - Oct. 2	Evaluating limits	1.1, 1.2	HW1.1, WS3
1.5	Oct. 5 - 9	Continuity, The idea of derivative	1.3, 2.0	Q1.2, WS4
1.6	Oct. 12 - 16	The definition of derivative	2.1	HW1.2, WS5 No class Oct. 12
1.7	Oct. 19 - 23	Derivatives: properties and formulas	2.2	Q1.3, WS6
1.8	Oct. 26 - 30	Trigonometry	Suppl. Notes	HW1.3
	Oct. 26	Midterm Test		No workshop
1.9	Nov. 2 - 6	Exponentials and logarithms	2.3	Q1.4, WS7
1.10	Nov. 9 - 13	The Chain Rule	2.4	HW1.4, WS8 No class Nov. 11
1.11	Nov. 16 - 20	The derivative as a rate of change	2.0?	Q1.5, WS9
1.12	Nov. 23 - 27	Exponential growth and decay	??	HW1.5, WS10
1.13	Nov. 30 - Dec. 4	Higher derivatives, Review	-	Q1.6, WS11
				Exams and break
2.1	Jan. 4 - 8	Implicit Differentiation	2.9	No assignment
2.2	Jan. 11 - 15	Related Rates I	2.6	
2.3	Jan. 18 - 22	Related Rates II	2.6	
2.4	Jan. 25 - 29	Extrema and the Mean Value Theorem	3.1, 3.2	No assignment No workshop Midterm Feb. ??
2.5	Feb. 1 - 5	The First Derivative Test	3.3	
2.6	Feb. 8 - 12	Review	-	
			no class Feb. 8	
				Reading Week
2.7	Feb. 22 - 26	Concavity and The Second Derivative Test	3.3, 3.4	No assignment
2.8	Feb. 29 - Mar. 4	Asymptotes	3.6, 3.7	
2.9	Mar. 7 - 11	Curve Sketching	-	
2.10	Mar. 14 - 18	Optimization I	3.5	
2.11	Mar. 21 - 24	Optimization II	3.5	
2.12	Mar. 29 - Apr. 1	Approximations	2.8	
2.13	Apr. 4 - 8	Antiderivatives and Review	-	
				Exams