MA 132 Summer Session II 2017 Schedule

Dates	Lessons	Main Concepts
Monday/Wednesday	0: Introduction and Getting Started	Syllabus
June 26/June 28	1: Declining Prices, Profits and Graphing	Graph of a function, max/min
Tuesday/Thursday	2: Price Data and Trendlines	Data fitting, least squares
June 27/June 29	3: Price Data for Two Markets and Linear Estimation	Functions of 2 variables, data fitting
Wednesday	Continue Lesson 3	Functions of several variables, best fits
July 5	4: Property Appraisal and Linear Estimation	without graphing
Thursday	5: Savings Plans and First-Order Finite Differences	Finite difference equations, financial
July 6		modeling, exact solution to difference eq.
Monday/Wednesday	6: Loans and First Order Finite Differences	Physical modeling, differential equation as
July 10/July 12	7: Cooling Model and Euler Finite Difference Method	a limit of difference equation, closed-form
Tuesday/Thursday	8: Population Models and Exponential Functions	solutions, equilibrium, population models
July 11/July 13		
Monday/Wednesday	9: Population Models and the Spread of Rumors	Population models, logistic growth,
July 17/July 19	10: Minimum Cost of a Display Area and Derivatives	closed-form solution, equilibrium
Tuesday/Thursday	11: Profit from 2 Markets and Partial Derivatives	Optimization (max/min), constraint,
July 18/July 20		max/min by differentiation
Monday/Wednesday	12: Alcohol Breath Testing and Least Squares Data	Least squares, critique and revision of
July 24/July 26	Fitting	mathematical models
Tuesday/Thursday	13: Population Growth: Raleigh and Wake County	Population models, closed form solutions
July 25/July 27	14: Population Growth: the World	of differential equations, logs