Regression/Modeling Subtopics	Covered earlier.	Covered in these 2 weeks.	I hope to work it	Probably not time.	No
			in soon.		
1. Make a reasonable choice for the response variable.	Х	x – 10 min			
2. Find the regression line.					
a. Using technology only.		x – 30 min			
b. Using the "computational equations" which use the sum of x-					Х
squared, sum of y-squared, sum of x, sum of y.					
c. Using the "intuitive equations" which use the means, standard deviations, and correlation coefficient.				Х	
3. Interpret the slope	Х	x – 10 min			
4. Interpret the intercept	Х	x – 10 min			
5. Use the line / equation to make predictions	Х	$x - 5 \min$			
6. For a given y, find what x would give that y.	Х	x – 5 min.			
7. Discuss extrapolation.	Х	x – 10 min			
8. Discuss that association does not imply causation.			Х		
9. Graph the regression line.	Х	x – 10 min			
10. Compute the residuals.		x – 20 min			
11. Graph the residuals.		x – 20 min			
12. Interpret the residual plot to determine whether the model is good enough.		x – 10 min			
13. Transformations of variables (such as square root, log)				Х	
14. Transformation of explanatory variable, such as "years since 1990"	Х	$x - 5 \min$			
15. Identification / impact of outliers and influential points				Х	
16. Fitting a nonlinear function to the data.		x - 40 min			
17. Plot the residual plot and interpret it.		x – 30 min			
18. Choose a good function to fit the data which includes as much of the "pattern" as reasonable		x – 30 min			
10 Compare the effects of different models on predictions outside the range of			v		
the data.			Λ		
20. Discuss how different assumptions about the phenomenon suggest different			Х		
mathematical models (exponential as proportional growth versus linear as					
constant growth, for example)					
21. Compute / interpret the correlation coefficient.				Х	
22. Compute / interpret r-squared.					х