

Statistics 511

Syllabus

Topic	Section in NWNK 4 th	Section in NWNK 5 th
Normality, t-test and other basics	A.5 – A.6	A.5-A.6
Estimating the Mean	A.6	A.6
What is Regression?	1.1, 1.2, 3.10	1.1, 1.2, 3.10
Least squares Regression	1.3 – 1.8, 2.7	1.3 – 1.8, 2.7
Inference for Regression	2.1 – 2.6, 2.8 –2.10	2.1 – 2.6, 2.8 –2.10
Regression Diagnostics	3.1 – 3.3, 3.9	3.1 – 3.3, 3.9
Regression in Matrix Notation	5.9 – 5.13	5.9 – 5.13
Regression Through the Origin	4.4	4.4
Regression and Correlation	15.1	2.11
Multiple Regression	6, 7.1 – 7.4	6, 7.1 – 7.4
Regression Diagnostics	9	10
Polynomial Regression	7.7, 7.8	8.1, 8.2
Variable Selection	8	9
Using Categorical Predictors in Regression	11	8.3-8.7
Advanced Topics (time permitting)		

Academic Integrity

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Grade Breakdown

homework	20%
project	15%
mid-term 1	20%
mid-term 2	20%
final exam	25%