201-922-DW (Introduction to Statistical Methods)

TEST 2 - STUDY GUIDE

Instructor: Émilie Richer (Department of Mathematics) October 31st 2016

	Topic	Suggested exercises
Computations & permutations	 Compute probabilities using combinations and permutations Know the definitions and formulas for permutations and combinations 	 class notes & examples p. 37-39 #1-25 (official text) in-class assignment #2
Discrete probability distributions	 Define a discrete probability distribution Compute μ and σ for a discrete probability distribution 	 class notes & examples p.45 #19-23 (official text) quiz #1
Total variation SS(X), sample variance s^2 , sample standard deviation s	 Formulas for total variation, variance and standard deviation Use a calculator to compute statistics for a given sample 	class notes & examplescalculator quiz exercises (obeymath.org)
Population mean and standard deviation (μ & σ) vs. sample mean and sample standard deviation	• Understand the difference between population mean and sample mean and population standard deviation and sample standard deviation	• class notes & examples
Binomial Probability Distribution	• Binomial experiments, computing μ & σ for a bionomial probability distribution	 p.50-51 #1-14 (official text) P.148 - guided practice 3.43 - 3.47 (alternate text)