## Hunter College of The City University of New York

## STAT 313 Introduction to Mathematical Statistics 3 hrs, 3 cr

**<u>Text</u>:** Hogg, McKean,& Craig, *Introduction to Mathematical Statistics*, 6<sup>th</sup> Edition, ISBN 0-13-008507-3

## Tentative Content:

- Week 1 Probability and Distributions 1.1-1.10
- Week 2 Multivariate Distributions 2.1-2.5
- Week 3 Some Special Distributions 3.1-3.6
- Week 4 Unbiasedness, Consistency, and Limiting Functions 4.1-4.4
- Week 5 Test 1 (Chaps 1-4)
- Week 6 Some Elementary Statistical Inference 5.1-5.7
- Week 7 Maximum Likelihood Methods 6.1-6.3
- Week 8 Sufficiency 7.1-7.6
- Week 9 Optimal Tests of Hypotheses 8.1-8.3
- Week 10 Test 2 (Chaps 5-8)
- Week 11 Inferences about Normal Models 9.1-9.2, 9.4-9.7
- Week 12 Non-Parametric Statistics 10.1-10.5, 10.8
- Week 13 Bayesian Statistics 11.1-11.2
- Week 14 Linear Models 12.1-12.3, 12.5