

STA 6326

Introduction to Theoretical  
Statistics 1  
Section 4458

Fall 1999

**Course Information**

**Time:** 11:45 – 12:35 (5nd Period) MWF

**Place:** 230 FLO (Griffin-Floyd Hall)

**Instructor:** Mark C. K. Yang

**Office:** 225 FLO

**Phone:** 392-1941 ext. 237

**e-mail:** yang@stat.ufl.edu

**Office Hours:** TR 5:30— 6:30 a.m., W: 9:30–11:30 or by appointment.

**Text:** Mood, Graybill and Boes, *Introduction to the Theory of Statistics* (3rd ed), McGraw-Hill, 1974.

**References:** *Statistical Inference*, Casella & Berger, Brooks/Cole  
*Modern Probability Theory and Its Applications*, Parzen, E.  
*An Introduction to Probability Theory and its Applications*, Feller, W.  
*Statistical Theory*, Lindgren, B.  
*Introduction to Mathematical Statistics*, Hogg, R. & Craig, A.

**Objectives**

STA 6326 is the first part of a two-semester sequence on theoretical statistics. This part covers probability and distribution theory.

**Prerequisites**

Background in mathematics of at least MAC 2313 (3rd semester calculus). An undergraduate course in statistical theory (at a level comparable to STA 4321-22) is also strongly recommended, though not required.

**Homework, Exams and Schedule (subject to change):**

Item	Points	Comments
Homeworks	200	Assigned on Fridays (except 9/27, 11/6, 11/26), Due Wednesdays. No late homework will be accepted. However, each exercise is worth 20 points, i.e., you may skip 2 assignments. It's on <a href="http://www.stat.ufl.edu/~yang/STA6326/">http://www.stat.ufl.edu/~yang/STA6326/</a>
Two 2-hour exams	200	9/22 and 10/27 (Location to be announced)
Final (Cumulative)	200	Dec. 14, 7:30-9:30 at FLO 230

Academic dishonesty will not be tolerated. While you may help each other with the exercises, copying is not allowed. Make-up examinations are given only under unusual circumstances. The student must notify the instructor in advance and must be able to provide written documentation for the excuse.

**Grading:** Total 600 points.

510<sup>+</sup> = A, 450<sup>+</sup>=B+; 390<sup>+</sup>=B.

### **About the Department of Statistics**

The Department of Statistics at the University of Florida is one of the nation's largest and leading statistics departments. The Department awards approximately 15 Bachelors degrees, 10 Masters degrees, and 2 Ph.D. degrees per year. The Statistics Department, chaired by Professor Ronald Randles, has a faculty of 35 members whose research interests include both theoretical and applied statistics. The Statistics Department's main office is in 102 Griffin-Floyd Hall (telephone 392-1941).

### **Background of the instructor:**

Mark C. K. Yang received his B.S. in electrical engineering at National Taiwan University, M.S. in mathematics and PhD in Statistics at University of Wisconsin, Madison, Wisconsin. He worked with the Bell Lab, US Dept of Energy, and the US Naval Research Laboratory. He is now a professor in the Department of Statistics and a research member of the Software Engineering Research Center. He has published numerous statistical research papers and well cited in statistical literature. He is an elected fellow of the American Statistical Association. In addition to statistical research, he has published many papers in *IEEE Trans. Pattern Analy. Machine Intell.*, *IEEE Trans. Syst. Man. Cybern.*, *IEEE Trans. reliability.*, *SIAM J. on Computing*, *Pattern Recog.* and *Comput. Vision, Graph. & Imag. Proc.* His current research interests are software testing and computational genetics. He was a recipient of the 1998 university Excellency in Teaching (TIP) award.