

## **MAT 652 : Probability and Statistics II (Spring, 2015)**

### **Course Description**

The course will cover the central ideas of statistical inference: estimation (point and interval) and hypothesis testing. We learn how to find appropriate statistical techniques and how to evaluate these techniques in a general context first, and then consider some special cases. We plan to cover Chapters 5 to 9 in the textbook.

### **Instructor**

Professor Pinyuen Chen  
Physics Building 229 G  
443-1577, 443-1471(message)  
Pinchen@syr.edu  
Class time MW 12:45 pm – 2:05 pm  
Office Hours: MW 11 am – 12 noon

### **Textbook**

*Statistical Inference*, by George Casella and Roger L. Berger, 2<sup>nd</sup> edition, Duxbury

### **Grading Policy**

Midterm Exam (30%), Final Exam (30 %), Homework (40 %)

### **Prerequisite**

Calculus, MAT 651 or equivalent

### **References**

Bickel and Doksum (2001) *Mathematical Statistics*, Vol. 1, 2<sup>nd</sup> edition, Prentice Hall  
Cox and Hinkley (1974) *Theoretical Statistics*, Chapman and Hall  
E.L.Lehmann (1983) *Theory of Point Estimation*, Wiley  
E.L.Lehmann (1988) *Testing Statistical Hypothesis*, Wiley  
Dudewicz and Mishra (1988) *Modern Mathematical Statistics*, Wiley

## **Academic Integrity**

The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see <http://academicintegrity.syr.edu>

## **Disability**

Students who may need academic accommodations due to a disability are encouraged to discuss their needs with the instructor at the beginning of the semester. In order to obtain authorized accommodations, students should be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498 and have an updated accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance."

For more information about services and policy, see [Office of Disability Services](#)

**Syracuse University**

**Office of Disability Services**

**804 University Avenue Room 309**

**Syracuse, New York 13244-2330**

**Phone: Voice: (315) 443-4498**

**TDD: (315) 443-1371**

**E-Mail: [odssched@syr.edu](mailto:odssched@syr.edu)**