MAT 651 : Probability and Statistics I (Fall 2010)

Course Description:

A review of basic probability theory, transformations and moments, common families of distributions, multiple random variables, sampling from the normal distribution, convergence concepts

Instructor

Professor Pinyuen Chen, Physics Building 229 G 443-1577, 443-1471(message) pinchen@syr.edu Office Hours: Tu & Th 8:00 p.m. -9:20 p.m.

Text : Statistical Inference, by George Casella and Roger L. Berger, 2nd edition, Duxbury

Grading Policy

Two exams: 60% Homework: 40%

Prerequisite: Calculus I and II

Course Schedule : Chapters 1-5 and a part of Chapter 6 if time permits.

References

Bickel and Doksum (2001) Mathematical Statistics, Vol. 1, 2nd edition, Prentice Hall Cox and Hinkley (1974) Theoretical Statistics, Chapman and Hall Dudewicz and Mishra (1988) Modern Mathematical Statistics, Wiley Gnedenko (1989) Theory of Probability DeGroot and Schervish (2002) Probability and Statistics

Learning Goals

Students will be expected to

- 1) use and understand basic mathematical notation;
- 2) select and apply an appropriate mathematical model for certain elementary probabilistic problems;
- 3) do basic hand calculations with accuracy;
- 4) use appropriate hardware and/or software related to certain probability distributions.

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 is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy 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

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