SPRING 2012 MATH 628 Mathematical Theory of Statistics

Theory of point estimation and hypothesis testing with applications. Confidence region methodologies and relations to estimation and testing.

Prerequisite: MATH 627 or equivalent. Credit Hours: 3

CLASS HOURS: WF 3:00 – 4:15 pm, Room 120 Snow Hall

INSTRUCTOR: Bozenna Pasik-Duncan, Ph.D, D.Sc. (Habilitation)
Professor of Mathematics and Courtesy Professor of EECS

OFFICE: 503 Snow, PHONE: 864-5162 E-MAIL: bozenna@math.ku.edu
Web page: http://www.math.ku.edu/ksacg/Bozenna.html
OFFICE HOURS: WF: 10:30 – 11:30 am or by appointment

TEXTBOOK: Probability and Statistical Inference, R. V. Hogg/ E. A. Tanis, Eigth Ed. Chapters 6 through 10 with the selected sections will be covered.

CLASS PROCEDURES AND GRADING:
LECTURES: Members of the class are expected to attend the lectures, which will be used to explain new material, to work typical examples and to answer some questions. The course will cover selected material from the chapters mentioned above.

HOMEWORK: Homework assignments (10 of them) will be given weekly on Fridays. Assignments will be collected at the beginning of the lectures on the following Friday. Late HW won’t be accepted.

EXAMINATIONS and QUIZ:
EXAM I: In Class, Friday, March 2
EXAM II/: Take Home/ Part I – Essay, Wednesday, April 11,
Part II - 4 problems with focus on presentation, Wednesday, April 18
QUIZ: In Class – Friday, April 27
FINAL EXAM: Wednesday, 9 May, 1:30 pm – 4:00 pm, 120 Snow Hall

GRADING SYSTEM:
Your grade in this course will be determined on a point system.
A maximum of 500 points can be accumulated as follows:
Exam I = 100 pts, Exam II / Take Home/ Group Project = 100 pts, Final Exam = 200 pts
Homework (75 pts), Quizzes (15 pts) Attendance and Participation (10pts)

CHANGES: The instructor reserves the right to modify the schedule announced in this bulletin if the conditions arise during the semester which make such changes desirable.