SPRING 2013 MATH 728 Statistical Theory

CLASS HOURS: TR 11:00 am – 12:15 pm, Room 301 Snow Hall

INSTRUCTOR: Professor Bozenna Pasik-Duncan

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Course web page: http://www.math.ku.edu/ksacg/728/2013_Sp/math728sp2013.html

OFFICE HOURS: TR: 9:30 – 10:30 am or by appointment

TEXTBOOK: Introduction to Mathematical Statistics, Hogg, McKean, Craig, 7th Ed.
Chapters 4 through 11 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.

HOMEWORK: Homework assignments will be given weekly on Thursday.
Assignments will be collected at the beginning of the lectures on the following Thursday.

EXAMINATIONS:
• EXAM I: TBA
• EXAM II: TBA
• FINAL: Final Project

• 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 = 100 pts, Final Project = 150 pts, Homework =50 pts, Quizzes, Readings, Team Projects, Attendance and Participation = 100 pts
• Total = 500 points

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

Prerequisite: MATH 727 or MATH 727 or Math 627 or equivalent. Credit Hours: 3
The core mathematical statistics topics of estimation, testing, and confidence intervals are covered. Following the core topics such modern topics as decision theory, nonparametric statistics, regression and ANOVA, and robust statistical procedures are discussed. Computer-assisted data analysis is discussed at several points since it is very important for students of modern probability and mathematical statistics to have a comprehensive view that includes a glimpse of the importance of statistical computation to the field.