**SPRING 2017 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**: MWF 1:00 – 1:50 pm, Room 454 Snow Hall

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

**OFFICE:** 503 Snow, PHONE: 864-5162 E-MAIL: bozenna@ku.edu Web page: http://www.math.ku.edu/ksacg/Bozenna.html
**OFFICE HOURS**: W: 9:30 – 11:00 am or by appointment

**TEXTBOOK**: Probability and Statistical Inference, R. V. Hogg/ E. A. Tanis, Ninth 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 (12 of them) will be given weekly on Wednesdays. Assignments will be collected at the beginning of the lectures on the following Wednesday. Late HW won’t be accepted.

**EXAMINATIONS**:
EXAM I: In Class, Wednesday, February 22,
EXAM II: Take Home, Wednesday, March 29,

Exam III: In Class, Wednesday, April 26

FINAL EXAM (Optional)

**GRADING SYSTEM**:
Your grade in this course will be determined on a point system.
A maximum of **700 points** can be accumulated as follows:
Exam I = 150 pts, Exam II / Take Home= 100 pts, Exam III= 150, Final Exam = 150 pts Homework (100 pts), Quizzes (25 pts) Attendance and Participation (25pts)

**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.