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COLLEGE OF GRADUATE STUDIES

The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

Contact Person*: Paul Hewitt Phone: 530-2138 (xxx - xxxx) Email: paul.hewitt@utoledo.edu

Present

Supply all information asked for in this column.(Supply core, researc intensive and transfer module info if applicable)

College*: Coll Nat Sci and Mathematics

Dept/Academic Unit*: Mathematics

Course Alpha/Numeric*: MATH - 8680

Course Title*: Theory of Statistics

Credit hours*: Fixed: 3 or Variable: to

CrossListings: MATH 6680

Insert

To add a course, type in course ID and click the Insert button.

To remove a course, select the course on left and click the Remove button.

Remove

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

MATH 5960 or 6650 and 6670

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Proposed

Fill in appropriate blanks only where entry differs from first column.

College: Coll Nat Sci and Mathematics

Dept/Academic Unit: Mathematics

Course Alpha/Numeric: MATH - 8680

Course Title: Theory of Statistics II

Credit Hours: Fixed: 3 or Variable: to

CrossListings: MATH 6680

Insert

To add a course, type in course ID and click the Insert button.

To remove a course, select the course on left and click the Remove button.

Remove

Prerequisite(s)(if longer than 50 characters, please place it in Catalog Description):

MATH 5960 or 6650, MATH 6670, and MATH 8670

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Catalog Description (*only if changed*) 75 words max:

Exponential families, sufficiency, completeness, optimality, equivariance, efficiency. Bayesian and minimax estimation. Unbiased and invariant tests, uniformly most powerful tests. Asymptotic

Catalog Description (*only if changed*) 75 words max:

Distribution estimators, empirical Likelihood, generalized estimating equations, uniformly most powerful tests, asymptotic properties for estimation and testing, confidence

Has course content changed? Yes No

If course content is changed, give a brief topical outline of the revised course below(less than 1500 words)

The topics include: Likelihood, generalized estimating equations, uniformly most powerful tests, asymptotic properties for estimation and testing, confidence intervals.

Proposed effective term*: 201310 (e.g. 201140 for 2011 Fall)

File Type	View File
Syllabus	View

List any course or courses to be deleted. Effective Date:

Effective Date:

Approval:

Department Curriculum Authority: Alessandro Arsie 4-17-13 Date 2012/12/06

Department Chairperson: Paul Hewitt 4-17-13 Date 2012/12/07

College Curriculum Authority or Chair: Date 3-7-13

College Dean: Brian P. Arthure Date 3/5/13

Graduate Council: Date

Dean of Graduate Studies: Date

Office of the Provost : Date

Administrative Use Only

Effective Date: (YYYY/MM/DD)

CIP Code:

Subsidy Taxonomy:

Program Code:

Instructional Level:

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University of Toledo
Math 8680 Theory of Statistics II
Spring 2013

SYLLABUS

Instructor:
Faculty Office:
Faculty/Department web site:
Office Hours:
Phone:
E-Mail:
Class Meetings Location:

*Required for new course approval

***Course Description including course pre-requisites or co-requisites**
MATH 5960 or 6650, MATH 6670, and MATH 8670

***Texts (Required and Recommended, Reserve Materials, etc.)**
- Shao, Jun (2003) Mathematical Statistics, 2nd Ed, Springer
- Lehmann, E.L. (1983) Theory of Point Estimation, Wiley
- Lehmann, E.L. (1986) Testing Statistical Hypotheses, 2nd Ed, Wiley

Course Requirements: Expectations of students in course

***Grading policy or criteria**
The final grade is based on weekly homework assignments, the midterm exam (s) and the final exam.

***Assessment of Learning: Identification of methods used to assess student learning in the course**
Weekly homework assignments, the midterm exam (s) and the final exam

Classroom Procedures: Expectations of classroom behaviors including UT policies

***Tentative Class Schedule/Activities/List of Topics Covered**
- Distribution Estimators
- Empirical Likelihood
- Generalized Estimating Equations
- Uniformly Most Powerful Tests
- Asymptotic Properties for Estimation and Testing
- Confidence Intervals.