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APPROVED

The University Of Toledo
GRADUATE STUDIES

Existing Course Modification Form

Please enter the changes below to each existing course If changes are too extensive
for this format, attach a page with all information

College: ARS   Dept/Academic Unit: MATH

Contact Person Paul Hewitt   Phone: 530-2138   Email: paul.hewitt@utoledo.edu

Present	Proposed
Supply all information asked for in this column	Fill in appropriate blanks only where entry differs
(Supply core and transfer module info if applicable)	from first column
Course Alpha/Numeric: MATH 5600	Course Alpha/Numeric
Course Title APPLICATIONS OF STATISTICS I	Course Title
Credit Hours: 2	Credit Hours 3
CrossListings Math 7600 Math 4600	CrossListings MATH 4600
Prerequisite(s) PERMISSION OF INSTRUCTOR	Prerequisite(s):
Catalog Description (only if changed)	Catalog Description (only if changed)

Present:
Univ Core: Engl Hum Math Sci Soc Sci
US Culture Non-US Culture
Transfer Module: Arts & Humanity Engl Math
Social Science Natural Science & Physics

Proposed:
Univ Core: Engl Hum Math Sci Soc Sci
US Culture Non-US Culture
Transfer Module: Arts & Humanity Engl Math
Social Science Natural Science & Physics

Reason for change

The course has always had 3 contact hours The change will regularize student plans of study and more honestly acknowledge workload Nobody seems to remember exactly why it had seemed necessary to list it previously as 2 credit hours

Has course content changed? ⊙ No ' Yes If so, give a brief topical outline of the revised course below

Has the course changed from a non-core curriculum course to a core curriculum course? ⊙ No ⦁ Yes If so, explain how this course fulfills the core curriculum/general education guidelines

List any course or courses to be dropped   Effective Date·   /   /   ·(mm/dd/yyyy)

Approval:

Department Curriculum Authority·		Date	10 / 31 / 2011 (mm/dd/yyyy)
Department Chairperson		Date	11 / 04 / 201 (mm/dd/yyyy)
College Curriculum Authority.		Date	2 / 15 / 201 (mm/dd/yyyy)
College Dean		Date	2 / 15 / 2012 (mm/dd/yyyy)

After college approval, submit the original signed form to the Faculty Senate (UH 3320) for undergraduate-level courses; for graduate-level courses submit the original signed form to the Graduate School (UH3240). For undergraduate/graduate dual-level courses, submit the proposals to each office

UUCC or Graduate Council Curriculum Chair		Date	4 / 3 / 201 (mm/dd/yyyy)
Faculty Senate Core Curriculum Committee Chair		Date	/ / (mm/dd/yyyy)
Office of the Provost :		Date	/ / (mm/dd/yyyy)
Registrar's Office		Date	/ / (mm/dd/yyyy)

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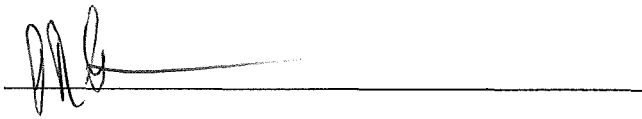## TOLEDO
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COLLEGE OF
GRADUATE STUDIES

February 8, 2012

Addendum to Course Modification Proposal for Math 5600/7600

This course has 3 contact hours but currently counts only for two credits.

Compared with the undergraduate course Math 4600 the graduate course goes into much greater depth on assignments and covers more advanced topics on tests; for example, nonparametric tests, such as the Wilcoxon and Kruskal–Wallis tests and logistic regression.

Paul R. Hewitt, Associate Professor and Chairman
Department of Mathematics and Statistics

Qin Shao, Associate Professor,
Chair Graduate Curriculum

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COLLEGE OF
GRADUATE STUDIES

MEMORANDUM

To: Karen Bjorkman, Distinguished University Professor and Dean,
College of Natural Sciences and Mathematics

Cc: Anthony Quinn, Associate Professor,
Chair - Curriculum Committee, CNSM Council

From: Paul Hewitt, Associate Professor and Chair,
Department of Mathematics and Statistics

Date: February 10, 2012

Subject: Addenda to course modification proposals for MATH 5600/7600
MATH 5610/7610, MATH 6600/8600, MATH 6610/8610

Recently DMS has submitted proposals to modify the listed courses from 2 credit hours to 3 credit hours. Since the 5000-level classes are cross-listed with 4000-level classes, then NSM council asked for additional information to make explicit the extra requirements for graduate credit in those classes. The recent instructors of these classes Drs. Qin Shao and Rong Liu have provided detailed descriptions of the extra requirements below.

For completeness they have also included additional information about the 6000-level classes, although this was not requested.