The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

Contact Person*: Don White	Phone	:: 530-4502 (xxx - xxxx) Email:
donald.white@utoledo.edu		
Present		Proposed
Supply all information asked for in this column.(Supply core, research intensive and transfer mode info if applicable)		Fill in appropriate blanks only where entry differs from first column.
College*: College Nat Sci and Mathematics	v	College: College Nat Sci and Mathematics ▼
Dept/Academic Unit*: Mathematics & Statistics ▼	_	Dept/Academic Unit: Mathematics & Statistics ▼
Course Alpha/Numeric*: MATH	-	Course Alpha/Numeric: MATH
5640		5640
		C TIVE
Course Title:		Course Title:
Statistical Computing		Statistical Computing
Credit hours: Fixed: 3 or Variable: to		Credit Hours: Fixed: 3 or Variable: to
CrossListings:		CrossListings:
MATH 4640 MATH 7640		MATH 4640 MATH 7640
Insert		Insert
To add a course	e.	To add a course,
type in course		type in course ID
and click the Ir	ısert	and click the Insert
button.		button.
To remove a co	ourse	To remove a course,
select the cours		select the course on
left and click the	he	left and click the
Remove buttor	1.	Remove button.
Remove		Remove
Prerequisite(s) (if longer than 50 characters, plea place it in Catalog Description):	ise	Prerequisite(s) (if longer than 50 characters, please place it in Catalog Description):
Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):	se	Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):
Catalog Description (only if changed) 75 words	max:	Catalog Description (only if changed) 75 words max:

Error analysis of statistical algorithms.

Numerical linear algebra for linear models.

Approximation methods for distribution function probabilities and quantiles. Uniform and non-uniform random number generation. Introduction to simulation methods.

Modern statistical computing, including programming tools, modern programming methodologies, design of data structures and algorithms, numerical computing and graphics. Additional topics selected from simulation studies, inversion of probability integral transforms, rejection sampling, importance sampling, Monte Carlo integration,

			hootst	tranning and ontimization.
Has course content changed?	• Yes			○ No
If course c	ontent is changed, give a bri	ef topical outline	of the re	vised course below(less than 200 words)
necessary	ate goal of this course for a statistical resea oficient in actively imp	rcher. The mater:	ial is	onal tools and methodologies selected to enable the student to nd tools in research.
Proposed 6	effective term*: 201640	(e.	.g. 2011	40 for 2011 Fall)
	File Type			View File
Syllab	pus		<u>View</u>	
List a	any course or courses to be ed.			Effective Date:
Comm	ents/Notes:			
Revise	d by Don White 4/4/16			

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The content of the old course is being upgraded, updated, and rearranged to better fit current programmatic needs. This course modification was undertaken in conjunction with the revision of our Master's of Science in Statistics concentration.

Approval:

Department Curriculum Authority:	Trieu Le	Date 2016/03/22
Department Chairperson:	Donald B. White	Date 2016/03/22
College Curriculum Authority or Chair:	Michael Cushing	Date 2016/04/19
College Dean:	Karen Bjorkman	Date 2016/04/19
Graduate Council:	Constance Schall (GCEC 8.5.2016)	Date 2016/08/09
Dean of Graduate Studies:	Amanda Bryant-Friedrich	Date 2016/08/10
Office of the Provost:	marcia king-blandford	Date 2016/08/10

print

Administrative Use Only

Effective Date:	2016/08/22 (YYYY/MM/DD)
CIP Code:	
Subsidy Taxonomy:	
Program Code:	
Instructional Level:	

Registrar's Office Use Only

Processed in Banner on:	2016/08/11	
Processed in Banner by:	Tasha Woodson	

Banner Subject Code:	MATH
Banner Course Number:	5640
Banner Term Code:	201640
Banner Course Title:	Statistical Computing

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