

X Change a Course - Abbrev & Number: BIO E- 431

Corresponding Lab Course: --

Corresponding Honors course: --

.. **Add Honors course:** --

Corresponding Graduate course: BIO E- -631

.. **Add Graduate course:** --

Course Title: MEDICAL IMAGING

Brief Statement of Change:

Change of pre-requisite. BioE 370 is not taken until the senior year by many students, limiting student access to this course. The instructor considers the new pre-reqs in MthSc and ECE appropriate with concurrent enrollment in BioE 370.

Last Term taught: 1301

.. **Change Abbrev to:**

Effective Term: 05/2013

.. **Change Number to:**

.. **Change Catalog Title:**

.. **Change Transcript Title:**

from:

from: MEDICAL IMAGING

to:

to:

.. From: Fixed Credit: 3 (3,) To: Fixed Credit: (,)

Change of Credit Variable Credit: - (-), (-) Variable Credit: - (-),(-)

.. **Add cross-listing with the following child course(s):**

.. **Delete cross-listing with the following child course(s):**

.. **Reverse Parent/Child relationship with:**

.. **Change Method of Instruction**

.. **Change Course Modifier**

.. **Change General Education Designation**

from:

to:

from:

to:

from:

to:

X A-Lecture Only

.. Pass/Fail Only

..

.. English Composition

..

.. B-Lab (w/fee)

.. X Graded

..

.. Oral Communication

..

.. D-Seminar

.. Variable Title

..

.. Mathematics

..

.. E-Independent Study

.. Creative Inquiry

..

.. Natural Science w/Lab

..

.. F-Tutorial (w/fee)

.. Repeatable

..

.. Math or Science

..

.. G-Studio

.. maximum credits

..

.. A&H (Literature)

..

.. H-Field course

.. from:

..

.. A&H (Non-Literature)

..

.. I-Study Abroad

.. to:

..

.. Social Science

..

.. L-Lab (no/fee)

..

..

.. CCA

..

.. N/B-Lecture/Lab(w/fee)

..

..

.. STS

..

.. N/L-Lecture/Lab(no fee)

..

..

.. **Change Catalog Description:**

from:

to:

X Change Prerequisite(s):

from: BioE 370 or equivalent or consent of instructor in BioE 370

to: MthSc 208; ECE 202 or 307; concurrent enrollment or consent of instructor

Learning Objectives: • Assess, evaluate, and justify the use and application of medical imaging techniques based on the underlying physical phenomena which these methods employ

o Explain, and model behavior of X-ray and CT Imaging based on basic physical principles

o Explain MRI using the simple "top" model of spins

o Understand the interactions of radiation with tissue, and compare and contrast images based on safety and risk/benefit

• Explain the outputs of imaging modalities in terms of anatomy and physiology coupled with the physics which the modality employs

• Design and justify a method for analyzing medical images based on basic image processing techniques

Topical Outline: Week Topic

1 Introduction

1-3 Review of Advanced Mathematics and MATLAB

3-4 Imaging Basics

4-5 X-ray Imaging

6 X-ray Computed Tomography

7-8 Nuclear Medicine

9-11 Magnetic Resonance Imaging

12-13 Ultrasound

14 Image Quality

15 Practical Applications

Lab Week Topic

1 1 Introduction to Image Processing in MATLAB

2 2-3 Image Parameters and Measurements from Images

3 4-5 Fourier Image Processing

5 6 SNR, Signal and Noise

6 7-8 CT Reconstruction
 7 9-10 Ultrasound Image Acquisition and Processing
 8 11-15 Term Project

000004

Evaluation: UNDERGRADUATE GRADING CALCULATION

Exam I 20%
 Exam II 20%
 Exam III 20%
 Lab Assignments 30%
 Participation and Quizzes 10%

GRADUATE GRADING CALCULATION

Exam I 20%
 Exam II 20%
 Exam III 20%
 Term Project 15%
 Lab Assignments 25%

GRADING SCHEMA (BioE 431)

A 90 - 100%
 B 80 - 89%
 C 70 - 79%
 D 65 - 69%
 F < 65%

GRADING SCHEMA (BioE 631)

A 90 - 100%
 B 80 - 89%
 C 70 - 79%
 F < 70%

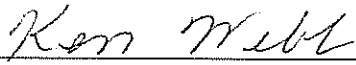
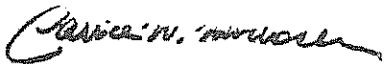
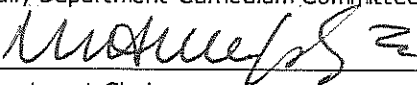
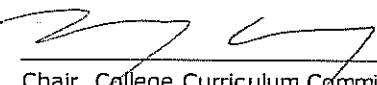

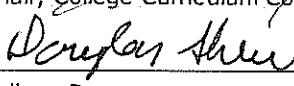
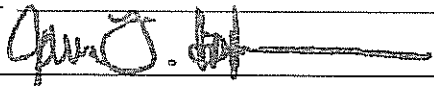
Add course requirements for honors and/or 600-level courses (if applicable): To receive graduate credit in this course, students must complete a term project including analysis and processing of medical imaging data. Students will be asked to choose a project based on real world medical scenarios. The students will be encouraged to explore within their domain area, in order to bring diversity to the course material. Undergraduate students will be encouraged to help the graduate students with their efforts in order to enrich their experience.

Form Originator: KWEBB, Charles Webb **Date Form Created:** 3/3/2013

Form Last Updated by: , **Date Form Last Updated:** 3/3/2013

Form Number: 5955

Approval

	3/3/13		4/5/2013
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3/5/13		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		



Curriculum and Course Change System - Print Change/Delete Course Form

XChange a Course - Abbrev & Number: CH E- 130

Corresponding Lab Course: CH E-L-130

Corresponding Honors course: --

..Add Honors course: --

Corresponding Graduate course: --

..Add Graduate course: --

Course Title: CHEMICAL ENG TOOLS

Brief Statement of Change:

Change prerequisites to include Ch 101 explicitly because course content of ChE 130 requires basic knowledge of chemistry.

Last Term taught: 1301

..Change Abbrev to:

Effective Term: 08/2013

..Change Number to:

..Change Catalog Title:

..Change Transcript Title:

from:

from: CHEMICAL ENG TOOLS

to:

to:

.. From: Fixed Credit: 2 (1,2) To: Fixed Credit: (,)

Change of Credit: Variable Credit: - (-), (-) Variable Credit: - (-), (-)

.. Add cross-listing with the following child course(s):

.. Delete cross-listing with the following child course(s):

.. Reverse Parent/Child relationship with:

..Change Method
of Instruction

..Change Course Modifier

..Change General Education Designation

from:

to:

..Pass/Fail Only

to:

..English Composition

..A-Lecture Only

..

..XGraded

..

..Oral Communication

..B-Lab (w/fee)

..

..Variable Title

..

..Mathematics

..D-Seminar

..

..Creative Inquiry

..

..Natural Science w/Lab

..E-Independent Study

..

..Repeatable

..

..Math or Science

..F-Tutorial (w/fee)

..

..maximum credits

..

..A&H (Literature)

..G-Studio

..

from:

..

..A&H (Non-Literature)

..H-Field course

..

to:

..

..Social Science

..I-Study Abroad

..

..

..

..CCA

..L-Lab (no/fee)

..

..

..

..STS

XN/B-Lecture/Lab(w/fee)

..

..

..

..N/L-Lecture/Lab(no fee)

..

..

..

..Change Catalog Description:

from:

to:

XChange Prerequisite(s):

from: Pre: CES 102 with C or better. CoEn: MTHSC 106 or 107; Phys 122

to: Pre: CES 102 and Ch 101 with C or better. CoEn: MTHSC 106 or 107; Phys 122

Learning Objectives:

Topical Outline:

Evaluation:

Form Originator: CHGDNG, Charles Gooding Date Form Created: 2/14/2013

Form Last Updated by: , Date Form Last Updated: 3/5/2013

Form Number: 5917

Approval

	3/5/13		4/5/2013
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3/5/13		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/5/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/5/13		5/8/13
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		

000006



Curriculum and Course Change System - Print Major Form

Delete Major Name: Environmental Engineering & Science

Degree: MENG

Effective Catalog Year: 2013

Explanation: The degree was very popular up to around 2000. When ABET changed its accreditation approach, the faculty chose not to reaccredit the degree. There has not been an MEng graduate since August 2000. All masters degree student have enrolled in our popular Master of Science of Environmental Engineering & Science degree program.

Form Originator: TJVRC, Thomas Overcamp Date Form Created: 2/21/2013

Form Last Updated by: , Date Form Last Updated: 2/21/2013

Form Number: 5921

Approval

	2/21/13		4/5/2013
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	2/21/13		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date

000007



Curriculum and Course Change System - Print Major Form

Delete Major Name: Geology

Degree: BA

Effective Catalog Year: 2013

Explanation: The BA Geology degree program has been a small degree program compared to the more popular BS Geology degree program. Currently we have one or two graduates a year in the BA Geology program. Since the BA Geology requires courses from the BS Geology curriculum, it does not impose additional teaching requirements. On the other hand, the necessity of clearly differentiating student outcomes for the two degrees and limited faculty resources has led to this request. We wish to suspend enrollment in the BA Geology degree immediately and allow the three currently enrolled students to complete their BA Geology degree. We request a May 2017 termination date for the degree at Clemson University. ~~Termination~~ *Termination* will allow the faculty to concentrate on the BS Geology degree.

We have prepared a teach-out plan for our remaining students.

Form Originator: TJVRC, Thomas Overcamp Date Form Created: 2/21/2013

Form Last Updated by: , Date Form Last Updated: 2/21/2013

Form Number: 5920

Approval

<i>Thomas J Overcamp</i>	<i>2/21/13</i>	<i>Carice W. Moore</i>	<i>4/5/2013</i>
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
<i>Est Korall</i>	<i>2/21/13</i>		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
<i>Tommy King</i>	<i>3/15/13</i>	<i>David R. Milnes</i>	<i>5/8/13</i>
Chair, College Curriculum Committee	Date	Provost	Date
<i>Wayne Shui</i>	<i>3/15/13</i>	<i>John O. Holt</i>	<i>5/8/13</i>
College Dean	Date	President	Date



Curriculum and Course Change System - Print Change/Delete Course Form

XChange a Course - Abbrev & Number: EX ST-301

Corresponding Lab Course: EX ST-L-301

Corresponding Honors course: EX ST-H-301

..Add Honors course: --

Corresponding Graduate course: --

..Add Graduate course: --**Course Title: INTROD STATISTICS**

000008

Brief Statement of Change:

Combining EX ST 301 and MTHSC 203 to consolidate Undergraduate Statistics courses in the Mathematical Sciences Department. This is a result of the EX ST courses now being taught in the MTHSC department.

Last Term taught:1206

Effective Term:05/2014

..Change Abbrev to:**XChange Number to: 230****XChange Catalog Title:**

from: Introductory Statistics

to: Statistical Methods I

XChange Transcript Title:

from: INTROD STATISTICS

to: STAT METHODS I

.. From: Fixed Credit: 3 (2,2) To: Fixed Credit: (,)

Change of Credit Variable Credit: -(-), (-) Variable Credit: -(-),(-)**.. Add cross-listing with the following child course(s):****.. Delete cross-listing with the following child course(s):****.. Reverse Parent/Child relationship with:****..Change Method of Instruction****..Change Course Modifier****..Change General Education Designation**

from:	to:	from:	to:	from:	to:
..A-Lecture OnlyPass/Fail Only	..	..English Composition	..
..B-Lab (w/fee)	..	XGraded	..	..Oral Communication	..
..D-SeminarVariable Title	..	..Mathematics	..
..E-Independent StudyCreative Inquiry	..	..Natural Science w/Lab	..
..F-Tutorial (w/fee)Repeatable	..	..Math or Science	..
..G-Studio	..	maximum credits		..A&H (Literature)	..
..H-Field course	..	from:		..A&H (Non-Literature)	..
..I-Study Abroad	..	to:		..Social Science	..
..L-Lab (no/fee)CCA	..
XN/B-Lecture/Lab(w/fee)STS	..
..N/L-Lecture/Lab(no fee)	..				

XChange Catalog Description:

from: Basic concepts and methods of statistical inference; organization and presentation of data, elementary probability, measures of central tendency and variation, tests of significance, sampling, simple linear regression and correlation. Stresses the role of statistics in interpreting research and the general application of the methods. Credit toward a degree will be given for only one of EX ST 301, MTHSC301, 302, 309.

to: Basic concepts and methods of statistical inference, organization and presentations of data, elementary probability, measures of central tendency and variation, tests of significance, sampling, simple linear regression and correlation. Stresses the role of statistics in interpreting research and the general applications of methods. Statistical microcomputer software is used. Not open to students who have received credit for MTHSC 302 or EX ST 309

XChange Prerequisite(s):**from:****to:** Any MTHSC course, STAT 222, or a score of 3 or higher on the CMPT**Learning Objectives:** 1. Explain the process of statistical inference and its relevance to the real world.

2. Be able to identify and distinguish between types and levels of variables, and know which levels/types of variables are required for statistical techniques.

3. Demonstrate an understanding of measures of central tendency and dispersion by applying each to make inferences about a sample drawn from symmetrical and skewed distributions.

4. Will demonstrate proficiency in application of rules of probability, and extend those principles to discrete, binomial, and continuous probability distributions.

5. Explain and demonstrate the importance of the Central Limit Theorem

6. Explain and apply the concept of sampling distributions and their role in developing confidence intervals and use in hypothesis testing, correctly utilizing the "t" or "z" distribution

7. Be able to identify the correct statistical test to be used for hypothesis testing on one or two sample scenarios for both means and proportions

8. Be able to clearly interpret the results of statistical analysis in relation to the original research question

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9. Be able to correctly and appropriately use correlation and linear regression models. Be able to interpret parts of simple linear regression equation.

Topical Outline: 1 hour - Introduction/Syllabus

1 hour - Introduction, Graphs

1 hour - Graphs

1 hour - LAB

1 hour - Numerical Descriptive Statistics

1 hour - Numerical Descriptive Statistics, Probability

1 hour - LAB

1 hour - Probability

1 hour - Probability, Random Variables

1 hour - LAB

1 hour - Random Variables, Normal Distribution

1 hour - Normal Distribution

1 hour - LAB

1 hour - Normal Distribution

1 hour - Sampling Distributions and Central Limit Thm.

1 hour - LAB

1 hour - Intro to hypothesis testing

1 hour - Review for Exam 1 /Intro to hypothesis Testing cont.

1 hour - Exam 1

1 hour - One proportion hypothesis test

1 hour - One proportion hypothesis test

1 hour - LAB

1 hour - One proportion estimation

1 hour - One proportion estimation, two proportions hypothesis test

1 hour - LAB

1 hour - Two proportions

1 hour - Two proportions estimation, one mean hypothesis test

1 hour - LAB

1 hour - One mean hypothesis test

1 hour - One mean estimation, Review for Exam 2

1 hour - Exam 2

1 hour - Two means independent samples hypothesis test

1 hour - Independent Samples Hypothesis test and estimation

1 hour - LAB

1 hour - Dependent Samples Hypothesis test

1 hour - Dependent Samples Hypothesis test and Estimation

1 hour - LAB

1 hour - Correlation

1 hour - Correlation

1 hour - LAB

1 hour - Review for Exam 3

1 hour - Exam 3

2 hours - Final Exam

Evaluation: 60% - 3 Common Exams (20% each)

20% - 1 lab grade,

20% - 1 final exam grade

Or



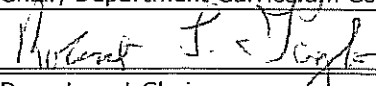
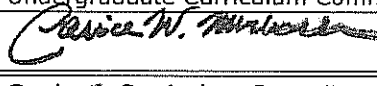
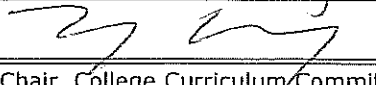
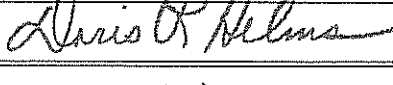
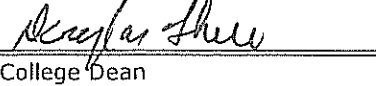
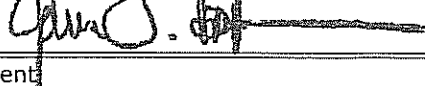
Average after dropping lowest and highest grade.

Form Originator: EHEPFER, Ellen Breazel **Date Form Created:** 10/28/2012

Form Last Updated by: EHEPFER, Ellen Breazel **Date Form Last Updated:** 3/15/2013

Form Number: 5566

Approval

	3/15/13		3/15/13
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3/15/13		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date

Director, Calhoun Honors College	Date		

600019

CLEMSON
UNIVERSITY

Curriculum and Course Change System - Print Change/Delete Course Form

XDelete a Course - Abbrev & Number: MTHSC- 203

Corresponding Graduate Course: --

..Corresponding Honors course: --

0000011

Course Title: ELEM STAT INFERENCE

Brief Statement of Change:

This course combined with EX ST 301 will become a new course named EX ST 230

Last Term taught:1206

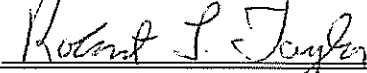

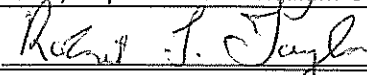
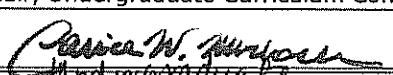
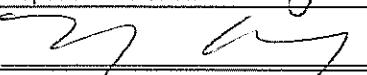
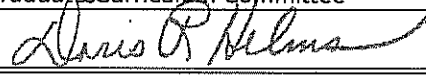
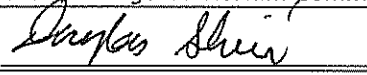
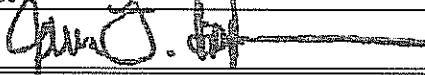
Effective Term:05/2014

Form Originator:EHEPFER, Ellen BreazelDate Form Created: 10/28/2012

Form Last Updated by: , Date Form Last Updated: 3/15/2013

Form Number: 5567

Approval

	3-15-13		3/15/13
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3-15-13		4/5/2013
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		



Curriculum and Course Change System - Print Change/Delete Course Form

000012

XChange a Course - Abbrev & Number: MTHSC-301

Corresponding Lab Course: --

Corresponding Honors course: MTHSC-H-301

..Add Honors course: --

Corresponding Graduate course: --

..Add Graduate course: --

Course Title: STAT METHODS I**Brief Statement of Change:**

Creating a second semester undergraduate Statistics course as a result of consolidating undergraduate Statistics EX ST and MTHSC courses

Last Term taught: 1206 **XChange Abbrev to:** EX STEffective Term: 05/2014 **XChange Number to:** 330**XChange Catalog Title:** **XChange Transcript Title:**

from: Statistical Methods I from: STAT METHODS I

to: Statistical Methods II to: STAT METHODS II

.. From: Fixed Credit: 3 (3,) To: Fixed Credit: (,)

Change of Credit: Variable Credit: -(-), (-) Variable Credit: -(-), (-)

.. Add cross-listing with the following child course(s):

.. Delete cross-listing with the following child course(s):

.. Reverse Parent/Child relationship with:

..Change Method of Instruction		..Change Course Modifier		..Change General Education Designation	
from:	to:	from:	to:	from:	to:
XA-Lecture OnlyPass/Fail Only	..	..English Composition	..
..B-Lab (w/fee)	..	XGraded	..	..Oral Communication	..
..D-SeminarVariable Title	..	..Mathematics	..
..E-Independent StudyCreative Inquiry	..	..Natural Science w/Lab	..
..F-Tutorial (w/fee)Repeatable	..	..Math or Science	..
..G-Studio	..	maximum credits		..A&H (Literature)	..
..H-Field course	..	from:		..A&H (Non-Literature)	..
..I-Study Abroad	..	to:		..Social Science	..
..L-Lab (no/fee)CCA	..
..N/B-Lecture/Lab(w/fee)STS	..
..N/L-Lecture/Lab(no fee)	..				

XChange Catalog Description:

from: Principal topics include collecting and summarizing data, probability distributions, inferences about central values and variation, analysis of categorical data, simple linear regression, basic experimental designs, and the analysis of variance. Credit toward a degree will be given for only one of MTHSC 301, 302, 309, EX ST 301.

to: Principle topics include collecting and summarizing data, probability distributions, analysis of categorical data, introduction to multiple linear regression, experimental design, analysis of variance, and non-parametric methods. Statistical computer software is used. Not open to students who have received credit for MTHSC 402

XChange Prerequisite(s):**from:** MTHSC 106 or 207 or 210**to:** EX ST 230 or MTHSC 302**Learning Objectives:** Upon successful completion of this course, a student will be able to:

1. Apply and interpret the correct techniques for analysis of categorical data
2. Perform and Interpret Hypothesis Tests for one and two sample variance
3. Be able to correctly apply simple linear regression techniques, including inference of simple linear regression model.
4. Perform multiple regression techniques; be able to choose the best model using various criteria.
5. Learn how to set up and analyze a completely randomized design, randomized complete block design, and factorial experiments.
6. Determine situations when non-parameteric testing is appropriate.
7. Properly apply non-parametric techniques when applicable.
8. Recognize proper analysis techniques for various case studies
9. Be able to properly communicate findings of case study analysis.

Topical Outline: 2 hours – One and Two Sample Testing of Variance

2 hours- Analysis of Frequency Tables

2 hours - Correlation and Simple Linear Regression

3 hours - Simple Linear Regression Inference

5 hours - Multiple Linear Regression
1.5 hours - EXAM 1

000013

Experimental Design and Analysis of Variance (ANOVA)
2 hours - Introduction and assumptions for ANOVA
4 hours - ANOVA for Completely Randomized Design
3 hours - ANOVA for Randomized Complete Block Design
3 hours - Factorial experiments
1.5 hours - EXAM 2

Nonparametric Analysis
2 hours - Sign test
1.5 hours - Wilcoxon Rank sum test
1.5 hours - Wilcoxon Signed-Rank test
2 hours - Kruskal - Wallis H test
1.5 hours - Spearman Rank Correlation
1.5 hours - EXAM 3


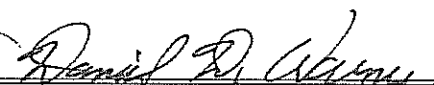
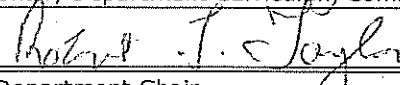
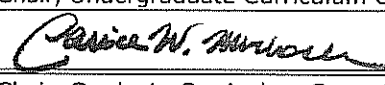
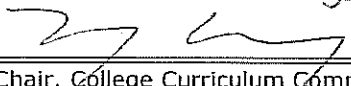
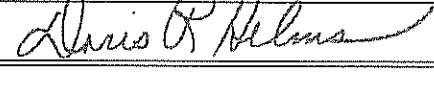


3 hours - Case Study Analysis
2 hours - FINAL EXAM

Evaluation: 60% - 3 Exams (20% each)
20% - Homework/Daily Grade
20% - Final Exam

The final grade will be determined based on three lecture tests, a daily grade and a cumulative final exam with each of the five grades having equal weight toward the final grade. The average of these 5 scores will be calculated and a letter grade will be assigned based on the usual ten-point scale.

Form Originator:EHEPFER, Ellen Breazel**Date Form Created:** 10/28/2012
Form Last Updated by: , **Date Form Last Updated:** 3/15/2013
Form Number: 5570

Approval

	3-15-13		3/15/13
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3-15-13		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		



Curriculum and Course Change System - Print Change/Delete Course Form

000014

XDelete a Course - Abbrev & Number: EX ST- 311

Corresponding Graduate Course: --

..Corresponding Honors course: --

Course Title: INTRO STATISTICS II

Brief Statement of Change:

Combining with MTHSC 301 to form MATH 330

Last Term taught:1201



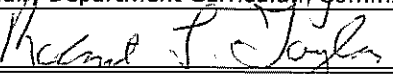

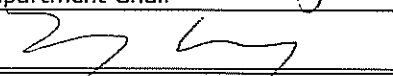
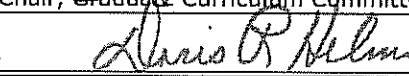

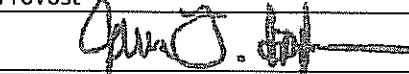
Effective Term:05/2014

Form Originator:EHEPFER, Ellen BreazelDate Form Created: 3/15/2013

Form Last Updated by: EHEPFER, Ellen BreazelDate Form Last Updated: 3/15/2013

Form Number: 6013

Approval

	3-15-13		3/15/13
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3-15-13		4/5/2013
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		



Curriculum and Course Change System - Print Change/Delete Course Form

XChange a Course - Abbrev & Number: MTHSC- 405

Corresponding Lab Course: --

Corresponding Honors course: --

..Add Honors course: --

Corresponding Graduate course: MTHSC- -605

..Add Graduate course: --

Course Title: STAT METHODS II

000019

Brief Statement of Change:

Changing Title of Course and Pre-requisites

Last Term taught:1108

Effective Term:05/2014

XChange Catalog Title:

from: Statistical Theory and Methods II

to: Statistics for Science and Engineering II

.. From: Fixed Credit: 3 (3,) To: Fixed Credit: (,)

Change of Credit Variable Credit: - (-), (-) Variable Credit: - (-),(-)

.. Add cross-listing with the following child course(s):

.. Delete cross-listing with the following child course(s):

.. Reverse Parent/Child relationship with:

..Change Method
of Instruction

from:

XA-Lecture Only

..B-Lab (w/fee)

..D-Seminar

..E-Independent Study

..F-Tutorial (w/fee)

..G-Studio

..H-Field course

..I-Study Abroad

..L-Lab (no/fee)

..N/B-Lecture/Lab(w/fee)

..N/L-Lecture/Lab(no fee)

..Change Catalog Description:

from:

to:

XChange Prerequisite(s):

from: MTHSC 301

to: MTHSC 302

Learning Objectives:

Topical Outline:

Evaluation:

Form Originator:EHEPPER, Ellen Breazel Date Form Created: 10/28/2012

Form Last Updated by: , Date Form Last Updated: 3/15/2013

Form Number: 5569

Approval

	3-15-13		3/15/13
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3-15-13		4/5/2013
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/15/13		5/8/13
Chair, College Curriculum Committee	Date	Provost	Date
	3/15/13		5/8/13
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		