

 FLORIDA ATLANTIC UNIVERSITY	NEW COURSE PROPOSAL Graduate Programs		UGPC Approval _____ UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department Mathematical Sciences College Science <i>(To obtain a course number, contact erudolph@fau.edu)</i>		
Prefix STA Number 6230	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> Lab Code	Type of Course Lecture	Course Title Statistical Models and Designs
Credits <i>(Review Provost Memorandum)</i> 3	Grading <i>(Select One Option)</i> Regular <input checked="" type="radio"/> Sat/UnSat <input type="radio"/>	Course Description <i>(Syllabus must be attached; see Guidelines)</i> This course introduces basic concepts and methods in linear statistical models for regression, analysis of variance, and experimental design. This course is not intended for students in the Ph.D. program in mathematics.	
Effective Date <i>(TERM & YEAR)</i> Fall 2018	Prerequisites STA 4442 with minimum grade C or equivalent		Corequisites Registration Controls <i>(Major, College, Level)</i>
Prerequisites, Corequisites and Registration Controls are enforced for all sections of course			
Minimum qualifications needed to teach course: Member of the FAU graduate faculty and has a terminal degree in the subject area (or a closely related field.)		List textbook information in syllabus or here Applied Linear Statistical Models, 5th Edition, by Kutner, Nachtsheim, Neter, and Li. McGraw Hill, 2004.	
Faculty Contact/Email/Phone Hongwei Long/hlong@fau.edu/(561) 297-0810		List/Attach comments from departments affected by new course	

Approved by Department Chair <u> <i>A.C. Locke</i> </u> College Curriculum Chair <u> <i>[Signature]</i> </u> College Dean <u> <i>[Signature]</i> </u> UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____	Date <u> 3/18/18 </u> <u> 3/21/18 </u> <u> 3/21/18 </u> _____ _____ _____ _____
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Email this form and syllabus to UGPC@fau.edu one week before the UGPC meeting.

GRADUATE COLLEGE

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1970 10/1/70 10/1/70 10/1/70 10/1/70	NEW COURSE PROPOSAL PHYSICS Department of Physical Science College of Science The University of Florida	UNIVERSITY OF FLORIDA PHYSICS DEPARTMENT GAINESVILLE, FLORIDA
Course Title Analytical Mechanics	Course Number 201	Prerequisites PHYS 200
Description This course is designed to provide a rigorous treatment of the mechanics of particles and rigid bodies. It covers the topics of kinematics, dynamics, and statics. The course is intended for students who have completed PHYS 200.	Number of Credits 3	Effective Date Fall 1970
Faculty J. H. ...	Department Physics	Comments This course is a required course for students in the Physics Department. It is a prerequisite for PHYS 300.

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Approved for the Department of Physical Science

Syllabus

1. Course Name	Course Number	Credit Hours
Statistical Models and Designs	STA 6230	3

2. Course prerequisites

STA 4442 with minimum grade C or equivalent

3. Course logistics

- Term – Fall 2018
- Class location and time: TBA

4. Instructor

Name: Hongwei Long, Office SE 268
Phone: (561) 297-0810, fax (561) 297-2436
E-mail: hlong@fau.edu

5. Course description

This course introduces basic concepts and methods in linear statistical models for regression, analysis of variance, and experimental design. Topics include simple linear regression, multiple linear regression, model selection and validation, design and analysis of single-factor studies, analysis of variance and covariance, randomized complete block designs, random and mixed effects models. Statistical software will be used for data analysis.

6. Course objectives

Students who successfully complete this course will be able to:

- Use suitable statistical methods to perform data analysis.
- Estimate the effects of possible factors on a response.
- Build statistical regression models and conduct model selection and validation.
- Carry out statistical design of scientific studies.

7. Course evaluation method

The course grade will be based on the following weights:
30% Homework, 30% Midterm Exam, and 40% Final Project

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8. Course grading scale

Cumulative Performance	Grade
90%-100%	A
88% - 89%	A-
85% - 87%	B+
80% - 84%	B
78% - 79%	B-
75% - 77%	C+
70% - 74%	C
65% - 69%	C-
60% - 64%	D
0% - 59%	F

9. Policy on makeup tests, late work, and incompletes

Make-up exams will be given only under exceptional circumstance, and written, verifiable excuses must be provided in advance of the scheduled exams. No late work will be accepted. Grades of Incomplete (“I”) are reserved for students who are passing a course but have not completed all the required work because of exceptional circumstances. A grade of “I” will only be given under certain conditions and in accordance with the academic policies and regulations put forward in FAU’s University Catalog. The student must show exceptional circumstances why requirements cannot be met. A request for an incomplete grade has to be made in writing with supporting documentation, where appropriate.

10. Classroom etiquette policy

University policy on the use of electronic devices states: “In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions.”

11. Disability policy statement

In compliance with the Americans with Disabilities Act (ADA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Service (SAS) ---in Boca Raton, SU 133 (561-297-3880); in Davie, LA 203 (954-236-1222); or in Jupiter, SR 110 (561-799-8585)---and follow all SAS procedures.

12. Honor Code policy statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty, including cheating and plagiarism, is considered a serious breach of these ethical standards, because it interferes with the University mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the University community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001 at http://www.fau.edu/ctl/4.001_Code_of_Academic_Integrity.pdf

13. FAU’s Counseling and Psychological Services

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to

consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services -- individual counseling, support meetings, and psychiatric services, to name a few -- offered to help improve and maintain emotional wellbeing. For more information, go to <http://www.fau.edu/counseling/>

14. Required texts/readings

Applied Linear Statistical Models, 5th Edition, by Kutner, Nachtsheim, Neter, and Li.
ISBN: 978-0073108742, McGraw Hill, 2004.

15. Exams and assignments

There will be one midterm exam and one final project on the scheduled dates. All exams are closed books and notes. Homework will be assigned frequently and should be handed in on the due dates. Late assignments will not be accepted.

16. Course topical outline

Week	Topics
1	Simple linear regression
2	Inference in regression and correlation analysis
3	Diagnostics and remedial measures
4	Simultaneous inferences in regression analysis
5	Matrix approach to simple linear regression analysis
6	Multiple linear regression
7	Model selection and validation
8	Design and analysis of single-factor studies
9	ANOVA diagnostics and remedial measures
10	Two-factor studies with equal sample sizes
11	Randomized complete block designs
12	Analysis of covariance
13	Two-factor studies with unequal sample sizes
14	Multi-factor studies
15	Random and mixed effects models

Nancy Condemi

From: Ken Dawson-Scully <dawsonscully@gmail.com>
Sent: Wednesday, March 21, 2018 2:30 PM
To: Nancy Condemi
Subject: Fwd: STA 6230

Ken Dawson-Scully MSc PhD

Associate Professor
Department of Biological Sciences,
Charles E. Schmidt College of Science,
Florida Atlantic University,
777 Glades Road,
Boca Raton FL, 33431, USA
Telephone: (561) 297-0337 -- Fax (561) 297-2749
Email: ken.dawson-scully@fau.edu

Begin forwarded message:

From: Yuan Wang <ywang@fau.edu>
Date: March 19, 2018 at 2:57:18 PM EDT
To: Ken Dawson-Scully <ken.dawson-scully@fau.edu>
Subject: Fwd: RE: STA 6230

Hello Ken,

This is about our new course proposal STA 6230 (the one that came up in the last day). As you can see below, our dept contacted the College of Education, and it doesn't seem to be any issue from the College of Education.

I see that the meeting of the university Graduate Committee is about to have a meeting. I'm not sure if this piece of information should be included in our course proposal. I can print a hard copy and leave it in your mbox if needed. Just let me know.

Thank you.
Yuan

----- Forwarded Message -----

Subject:RE: STA 6230

Date:Sat, 10 Mar 2018 14:59:34 -0500

From:John Morris <JDMORRIS@fau.edu>

To:Stephen Locke <lockes@fau.edu>, Yuan Wang <YWANG@fau.edu>

CC:Robert Shockley <SHOCKLEY@fau.edu>

Stephen,

This appears to be a standard course in linear models, and as such, is useful for all to draw upon. For my part, I see no conflict and fully support the offering from Mathematics. As you know, statistics is a content area that tends to promulgate across a university, but as long as appropriate expertise can be mustered wherever courses are housed, I believe quality is served. That expertise, wherever it is found at FAU could not possibly find conflict with Mathematics offering a course in linear models.

I am forwarding my response to Bob Shockley, our department chair, as he, I think, would be the official to respond to curriculum committee concerns.

Dan

From: Stephen Locke

Sent: Friday, March 9, 2018 3:17 PM

To: Yuan Wang <YWANG@fau.edu>; John Morris <JDMORRIS@fau.edu>

Subject: Fw: STA 6230

Dan,

We're putting a statistics course into our M.S.T. rotation. Attached is the course description and cover form. Please let Professor Wang know if there are any concerns from your college.

Also, if you have suggestions for any other department at FAU we should send a copy of the syllabus, please let me know, or let Professor Wang know.

Thanks,

Stephen

