

FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL¹

UGPC APPROVAL _____
 UFS APPROVAL _____
 SCNS SUBMITTAL _____
 CONFIRMED _____
 BANNER POSTED _____
 CATALOG _____

DEPARTMENT:
MATHEMATICAL SCIENCES

COLLEGE:
SCIENCE

RECOMMENDED COURSE IDENTIFICATION:

PREFIX STA COURSE NUMBER 6207 LAB CODE (L or C) _____

(TO OBTAIN A COURSE NUMBER, CONTACT RSHIMAN@FAU.EDU)

COMPLETE COURSE TITLE: **APPLIED STATISTICAL METHODS**

EFFECTIVE DATE

(first term course will be offered)

CREDITS:

3

TEXTBOOK INFORMATION:

Applied Linear Statistical Models, 5th Ed. By Neter, Kutner, Nachtsheim and Wasserman. McGraw Hill. 2005.

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN THREE LINES:

Overview of normal theory inference, and categorical data methods; basic concepts of experimental design; analysis of variance and covariance; introduction to regression models and model selection procedures. Statistical software Minitab and R will be used for data analyses.

PREREQUISITES*:

STA 4443 or STA 6326 or equivalent

COREQUISITES*:

NONE

REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)*:

* PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:

PH.D. IN MATHEMATICS OR PH.D. IN STATISTICS

Faculty contact, email and complete phone number:

Lianfen Qian
lqian@fau.edu
297-2436

Please consult and list departments that might be affected by the new course and attach comments.³

N/A

Approved by:

Department Chair: Lee Klingler

College Curriculum Chair: _____

College Dean: _____

UGPC Chair: _____

Graduate College Dean: Bong Ram

UFS President: _____

Provost: _____

Date:

4/9/13
4/23/13
4/25/13
9-11-13
9-12-13

1. **Syllabus** must be attached; see guidelines for requirements: www.fau.edu/provost/files/course_syllabus.2011.pdf

2. Review **Provost Memorandum: Definition of a Credit Hour** www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf

3. **Consent** from affected departments (attach if necessary)

Email this form and syllabus to UGPC@fau.edu one week before the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

- Mixed effect models (ca. 2 weeks)
 - Homework: Analyze data using mixed effect models and compare with regression models and continue final project
- ANCOVA(ca. 2 weeks)
 - Homework: Analyze data with covariates using ANCOVA and compare with regression models and complete final project

7. Required Text

Applied Linear Statistical Models, 5th Ed. By Neter, Kutner, Nachtsheim and Wasserman. McGraw Hill, 2005.

8. Supplementary/recommended readings

- An Introduction to Statistical Methods and Data Analysis, 6th edition (2010), R. Lyman Ott and Michael Longnecker, Duxbury-Thomson-Brooks/Cole, Belmont, ISBN-13: 978-0-495-01758-5.
- Fundamentals of Biostatistics, 6th Edition (2010), Bernard Rosner, Duxbury, ISBN-13: 978-0538733496

9. Assessment Procedure and Grading

There will be graded homework assignments accounting for 40% of your cumulative performance, a midterm exam, accounting for 30% of your cumulative performance, and a final project that accounts for 30% of your cumulative performance. Your overall grade in the course is derived from your cumulative performance according to the following table.

Cumulative Performance	Grade
> 94%	A
> 90% – 94%	A-
> 87% – 90%	B+
> 83% – 87%	B
> 80% – 83%	B-
> 75% – 80%	C+
> 65% – 75%	C
> 60% – 65%	C-
> 57% – 60%	D+
> 53% – 57%	D
≥ 50% – 53%	D-
<50%	F

10. Incomplete Grades

A grade of *I* (incomplete) 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 has to 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.

11. Makeup Tests and Extra Credit

If you cannot attend an exam or hand in a homework project in time due to a relevant reason like significant health problems or being involved in a major traffic accident, and you document this, then you can make up the respective assignment.

Extra credit work is not possible.

12. Method of Instruction

The course is conducted in lectures combined with lab sessions. Assignments may require the use of a statistical software package such as Minitab or R language. Unless otherwise specified, for those assignments you can use statistical package of your choice.

13. Disability policy statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability to properly execute coursework must register with the Office for Students with Disabilities (OSD) located in Boca Raton - SU 133 (561-297-3880), in Davie - MOD I (954-236-1222), in Jupiter - SR 117 (561-799-8585), or at the Treasure Coast - CO 128 (772-873-3305), and follow all OSD procedures.

14. 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