

Fall 2015

EDFR 6720

Marc Bonis
University of New Orleans

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Applied Regression and Analysis of Covariance

EDFR 6720

Syllabus

Marc Bonis, Ph.D.

University of New Orleans

Semester: Fall 2015
Section: 01
Day/Time: Thursday, 4:00 – 6:45 pm
Location: PC Lab
Instructor: Dr. Bonis
Office Phone: 280-6165
E-Mail: mbonis@uno.edu
Office Hours: Tues and Wed 12:30 -2:00pm & by appointment
Office: ED348K

Syllabus - Course Contents

- 08/20/2015 - Lesson 1 Introduction
- 08/27/2015 – Lesson 2 Data Exploration and Clean-up
- 09/03/2015 – Lesson 3 Correlation
- 09/10/2015 – Lesson 4 Partial Correlation
- 09/17/2015 – Lesson 5 Simple Linear Regression
- 09/24/2015 - Lesson 6 Multiple Linear Regression
- 10/01/2015 - Lesson 7 Logistic Regression
- 10/08/2015 - **Mid-Term Exam (Lessons 1-6)**
- 10/15/2015 - **Fall Break**
- 10/22/2015 - Lesson 8 ANOVA
- 10/29/2015 - Lesson 9 ANCOVA
- 11/05/2015 - Lesson 10 Factorial ANOVA
- 11/12/2015 - Lesson 11 Repeated Measures ANOVA
- 11/19/2015 - Lesson 12 Mixed Design ANOVA
- 11/26/2015 - **Thanksgiving Holiday**
- 12/03/2015 - Final Presentations
- 12/10/2015 - **Final Exam**

Course Prerequisites: EDFR 6700 and EDFR 6710

Course Description

Applied knowledge of advanced statistical methods. Topics include multiple regression, analysis of variance following multiple comparison tests; analysis of covariance; and log linear models.

The course is a study of the principles and procedures of statistics in the study of educational issues and theories. It will utilize the nature of scientific research as a framework. The conceptual model, theory practice interaction,

will be utilized as the method for sequential evaluation of individual course objectives.

Course Objectives

Upon completion of this course, the student will be able to apply and interpret the methodologies and techniques and understand the assumptions, advantages, and limitations of the methods studied. This will be accomplished through:

- The application of information from professional literature, instruction, and support resources.
- Application of theories taught in class to field teaching (theory practice interaction).

CACREP Standards addressed

Doctoral standard II.C.5. Design, implementation, and analysis of quantitative and qualitative research. [quantitative component]

Doctoral standard II.E.1. Understands univariate and multivariate research designs and data analysis methods.

Texts

Discovering Statistics Using IBM SPSS Statistics (Fourth Edition). Field, Andy (2013) Sage Publications. ISBN 978-1-4462-4917-8

Course Policies

Attendance/Participation.

Attendance at every class is expected of each student. It is expected that you come to every class having completed the assigned reading. *Your participation in class discussions is of paramount importance*, and it is a component of your course grade.

Academic Integrity

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

Accommodations

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as

well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

Assignments.

Written assignments are due in class on the date and time indicated in the syllabus. All written homework assignments should be typed with 12 point font, unless otherwise indicated. A professional-looking appearance is required which includes *proofreading* all of your work.

Readings.

Assigned readings are to be completed prior to the class period on which the reading is listed.

DISABILITY ACCESS STATEMENT

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities are encouraged to contact the instructor to discuss their individual needs for accommodation.

Class Assignments

- Class assignments will be due at the beginning of the next class..
- Assignments will be worth 30 points of the final grade.
- Additional questions regarding the assignment should be directed to Dr. Bonis.

Paper & Presentation

- The student will select a quantitative, peer-reviewed research article that utilizes the statistical methods discussed in the current class.
- The student will summarize the article, its statistical methods, results, and conclusions in no more than 2 typewritten pages in 12-point font.
 - The student will also present his/her article in class.
 - The presentation should be no more than 10 minutes. Powerpoint is NOT required.
 - Presentations will be on 12/03.
 - The paper & presentation will be worth 10 points of the final grade, 5 points for each.
 - Additional questions should be directed to Dr. Bonis.

Exams

There will be 2 exams. The midterm will be on 10/08/2015, and the final on 12/10/2015. They will be worth 25 points of your final grade.

Course Structure

Participation	10 pts
Class Assignments	30 pts
Mid-Term	25 pts

Final	25 pts
Presentation	<u>10 pts</u>
Total	100 pts

Course Grading

- A: 100 – 90
- B: 89 - 80
- C: 79 – 70
- D: 69 – 60
- F : \geq 59

Fall 2015 Semester Information

Important Dates*

Last day to adjust schedule w/out fee..	08/18/2015
Semester Classes Begin	08/19/2015
Last day to adjust schedule w/fee, or withdraw with 100% refund.....	08/25/2015
Last day to apply for December commencement	09/25/2015
Final day to drop a course or resign.....	10/14/2015
Mid-semester examinations	10/05-10/09/2015
Final examinations	12/07-12/11/2015
Commencement.....	12/18/2015

**Note: check Registrar's website for Saturday and A/B sessions, and for items not listed here: <http://www.registrar.uno.edu>*

Fall Semester Holidays

Labor Day	09/07/2015
Mid-semester break	10/15-10/16/2015
Thanksgiving.....	11/26-11/27/2015

Repeat Policy

When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless, (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's Dean gives prior approval for documented extenuating circumstances.

Graduate Policies

Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, see the Graduate Student Handbook:

<http://www.uno.edu/grad/documents/GraduateStudentHandbook2014.pdf>

Academic Dishonesty Policy

<http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf>

Safety Awareness Facts and Education

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here:

<http://www.uno.edu/student-affairs-enrollment-management/>

UNO Counseling Services and UNO Cares

UNO offers care and support for students in any type of distress. Counseling Services assist students in addressing mental health concerns through assessment, short-term counseling, and career testing and counseling. Find out more at <http://www.uno.edu/counseling-services/>. First-year students often have unique concerns, and UNO Cares is designed to address those students succeed. Contact UNO Cares through <http://www.uno.edu/fye/uno-cares.aspx>.

Emergency Procedures

Sign up for emergency notifications via text and/or email at E2Campus Notification: <http://www.uno.edu/ehso/emergency-communications/index.aspx>. All emergency and safety procedures are explained at the Emergency Health and Safety Office: <http://www.uno.edu/ehso/>.

Diversity at UNO

As the most diverse public university in the state, UNO maintains a Diversity Affairs division to support the university's efforts towards creating an environment of healthy respect, tolerance, and appreciation for the people from all walks of life, and the expression of intellectual point of view and personal lifestyle. The Office of Diversity Affairs promotes these values through a wide range of programming and activities. <http://diversity.uno.edu/index.cfm>

Learning and Support Services

Help is within reach in the form of learning support services, including tutoring in writing and math and other supplemental instruction. Visit the Learning Resource Center in LA 334, or learn more at <http://www.uno.edu/lrc/>.

Affirmative Action and Equal Opportunity

UNO is an equal opportunity employer. The Human Resource Management department has more information on UNO's compliance with federal and state regulations regarding EEOC in its Policies and Resources website: <http://www.uno.edu/human-resource-management/policies.aspx>

