

**STA 6167 – COURSE # 17826**  
**STATISTICAL METHODS IN RESEARCH II**  
**FALL 2021**  
**T 4, TH 4-5 @ ANDERSON 0032**

**INSTRUCTOR:** Dr. Larry Winner

**OFFICE:** 228 Griffin/Floyd

**PHONE:** 273-2995

**E-MAIL:** [winner@stat.ufl.edu](mailto:winner@stat.ufl.edu) (not to be used for technical explanations)

**OFFICE HOURS:** TBA (will be posted on class website)

**TA:** Michael Kim e-mail: michaelkkim@ufl.edu Office Hours: TBA (See Canvas)

**TEXT:** *Applied Statistical Methods II Course Notes* (On class website and at Target Copy) and Optional:

Ott and Longnecker, 2015. *An Introduction to Statistical Methods & Data Analysis*, 7<sup>th</sup> Ed., Cengage.

**General Topics (Tentative)**

- **Multiple Linear Regression** (Approx. 10 Lectures)
- **Completely Randomized Design** (Approx. 1 Lecture)
- **Randomized Block and Latin Square Designs** (Approx. 2 Lectures)
- **Factorial Designs (Fixed, Mixed, Random Effects)** (Approx. 5 Lectures)
- **Nested Designs** (1 Lecture)
- **Split-Plot Designs** (2 Lectures)
- **Repeated Measures Designs** (1 Lecture)
- **Analysis of Covariance** (1 Lecture)
- **Discrete Probability Distributions / Intro to Generalized Linear Models** (1-2 Lectures)

- **Logistic Regression** (2.5 Lectures)
- **Poisson Regression** (2.5 Lectures)
- **Nonlinear Regression** (2 Lectures)

## **Grading:**

**This course will consist of a series of data analysis projects and 3 exams. The projects will count 25% of final grade, and each exam will count 25%.**

- **Exam 1: Thursday, September 23**
- **Exam 2: Thursday, November 4**
- **Exam 3: Tuesday, December 7**

**Projects and datasets will be posted on class Canvas webpage.**

**SAS and R code will be provided for all methods covered in the course on class website.**

**R can be downloaded for free from the website:**

**<http://cran.r-project.org/bin/windows/base/>**

Notes:

- Practice Problems are available from old exams.
- Homework projects will be posted on class website and will be taken up and graded. Projects must be handed in (hard copy), e-mail will not be accepted.
- Exams 1 and 2 are 2-hour, Exam 3 is 1-hour. You may bring a copy of the necessary tables with hand written notes (8.5x11")
- No early exams will be given.
- If due to medical or academic conference reasons, any make-up exams must be taken within 7 days of scheduled exam time.
- Homework will count 25% of your course grade, each exam will be 25%
- Grades are not negotiable.
- You may request problems to be worked out in upcoming class via e-mail. I will not give detailed solutions via e-mail.

## **Course Grade Cut-offs:**

<b>A</b>	<b>A-</b>	<b>B+</b>	<b>B</b>	<b>B-</b>	<b>C+</b>	<b>C</b>	<b>C-</b>	<b>D</b>	<b>E</b>
<b>92</b>	<b>87</b>	<b>82</b>	<b>70</b>	<b>60</b>	<b>50</b>				

**Attendance/Exam/Assignment Policies:** While attendance is not taken, students are expected to attend lectures and participate in class. Make-up exams will only be considered with documented medical event or conference attendance (graduate students). Early exams will be given under no circumstances. Assignments are to be handed in during class on the date the assignment is due in paper format. Electronic submission of assignments will not be accepted. Turn off cell phones during classes.

**Academic Accommodations:** If you have a documented disability and wish to discuss academic accommodations with me, please contact me as soon as possible.

**University Grading Points:**

A	A-	B+	B	B-	C+	C	C-	D	E
4	3.67	3.33	3	2.67	2.33	2	1.67	1	0

**Online Course Evaluations:** The University has an online course evaluation system. Late in each semester (after final withdrawal date), students can go to the GATORRATER portal and evaluate courses. The website is located at: <https://evaluations.ufl.edu/evals/Default.aspx>.

**University Policies:**

**Academic Dishonesty:** All members of the University Community share the responsibility to challenge and make known acts of apparent academic dishonesty. Acts of academic dishonesty will not be tolerated and will be referred to the Student Honor Council.

**Incomplete:** An incomplete grade may be assigned at the discretion of the instructor as an interim grade for a course in which the student has completed a major portion of the course with a passing grade, been unable to complete course requirements before the end of the term because of extenuating circumstances, and obtained agreement from the instructor and arranged for resolution of the incomplete grade in the next term. Instructors are not required to assign incomplete grades. For complete details please visit:

[CLAS incomplete grade policies and forms.](#)

**Zoom Lecture Disclaimer (In case of Zoom being used):** Our class sessions may be audio-visually recorded for students in the class to refer back to and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voice recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials by students or any other party is prohibited.

## **In-Class Recording:**

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code

## **Campus Resources:**

### **Health and Wellness**

U Matter, We Care: If you or someone you know is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) , 352-392-1575, or visit [U Matter, We Care website](#) to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the [Counseling and Wellness Center website](#) or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the [Student Health Care Center website](#).

University Police Department: Visit [UF Police Department website](#) or call 352-392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the [UF Health Emergency Room and Trauma Center website](#).

### **Academic Resources**

*E-learning technical support:* Contact the [UF Computing Help Desk](#) at 352-392-4357 or via e-mail at [helpdesk@ufl.edu](mailto:helpdesk@ufl.edu).

*[Career Connections Center](#):* Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

*[Library Support](#):* Various ways to receive assistance with respect to using the libraries or finding resources.

*[Teaching Center](#):* Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.

*[Writing Studio](#):* 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

*Student Complaints On-Campus:* Visit the [Student Honor Code and Student Conduct Code webpage](#) for more information.

*On-Line Students Complaints:* [View the Distance Learning Student Complaint Process](#)