

STA 3024 Summer A 2024

Introduction to Statistics II Syllabus

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Course Website in CANVAS: <https://elearning.ufl.edu/>

This is the portal for UF's E-learning website. You log on using your gatorlink username and password to access the course materials, announcements, grades, online quizzes etc.

Course Description

A survey of the basic concepts in probability and statistics with engineering applications. Topics include probability, discrete and continuous random variables, confidence interval estimation, hypothesis testing, correlation, and regression.

Materials

1. **Required Lecture Notes:** will be posted in Canvas for you to print or use electronically, and you can also purchase them at Target Copy. They have an outline of the material, plus the computer output for the examples we will do together in class, so it is essentially your class notebook.
2. Required Scientific Calculator (around \$10 to \$15) that has some basic statistical functions like mean and standard deviation. **Graphing calculators are not allowed during the exams.**
3. Recommended Textbook: Statistics, The Art and Science of Learning from Data, by Agresti, Franklin and Klingenberg, 5th edition, Pearson. This *optional* textbook is available in an electronic version that is purchased through UF All Access (inside of Canvas) and includes MyLab and Mastering to do the *suggested* review problems electronically – details available in Canvas. Older editions of the book contain basically the same information and can be found used in hardcover.

Lectures

Class # 16348 MTWRF 3rd pd (11:00am– 12:15pm) TUR L011

Students must attend lectures IN PERSON; the lectures will not be streamed or recorded. Notes from these in-person lectures will be posted on Canvas when possible.

Online Quizzes

There will be six online quizzes, administered through Canvas, with the lowest score dropped. You will have three tries for each quiz (with questions randomly generated from a question bank) over a period of several days. Each quiz will be worth 10 points, and all together will count for 30% of your grade, or as much as one exam. Quiz dates appear on the schedule on the last page of this syllabus – more details will be announced in class and on the course website.

Homework

There will be five homework assignments to be turned in at the beginning of class on Wednesdays. These should be given as a hard copy either handwritten or typed and printed out. Assignment questions will be posted in Canvas one week before the due date. These homework assignments will often involve the use of a web app called Minitab. Instructions for how to access and use Minitab will be posted in Canvas.

Suggested Review Problems

The list of suggested homework problems from the textbook will be posted in Canvas. These problems will help you master the material but will not count towards your grade. You can get the text as an ebook (using UF All Access inside of Canvas) and do the suggested homework through the Access Pearson / MyLab and Mastering link on the course Canvas website.

Exams

There will be two exams given during the semester, each worth 100 points and 30% of your grade. They will take place during our regular class time, in person. Students must attend the section they are registered for on exam days.

In case of conflict or illness, if a student is unable to take an exam at the scheduled time, they must get in touch with the instructor **prior** to the exam time for any arrangements to be made for a makeup. Each case will be reviewed individually. Valid and detailed documentation is a prerequisite under such extenuating circumstances. A grade of zero is the minimum punishment of any type of dishonesty on an exam.

Exam 1	Fri May 31	In class	Ch 10, 14 and 12	Comparing Groups and Simple Regression
Exam 2	Fri June 21	In class	Ch 13, 11, and 15	Multiple Regression, Chi Squared, an Nonparametric Methods

Grades

Grade Structure:

Exam 1	30%
Exam 2	30%
Quizzes	30%
Homework	10%

Grading Scale:

A	90% to 100%	C+	74% to 76%
A-	87% to 89%	C	70% to 64%
B+	84% to 86%	D	60% to 63%
B	80% to 83%	E	59% and below
B-	77% to 79%		(No C-, D+ or D- given)

UF Grading Policies: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

Course Policies

Late Work – Late work will not be accepted more than three calendar days after the due date. This includes weekends and holidays. For every day late before three days, a 15% penalty will be given.

Email to Instructor – will be answered within one working day in most cases. Please be aware that statistical questions should be answered in person (in class or in-person office hours) since they often require pictures and formulas that make it very hard to communicate through email.

Privacy Policy - Student records are confidential. Only information designated “UF directory information” may be released without your written consent.

Privacy in Zoom Office Hours: The instructor’s office hours will only admit one student at a time, with any others being placed in a waiting room. Students can discuss any personal issues or problems

with the instructor during office hours with the guarantee of confidentiality. None of the office hours will be recorded.

Students with Disabilities: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://disability.ufl.edu/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which will be sent to the instructor. Students with disabilities should follow this procedure as early as possible in the semester, and need to do this every semester. Accommodations will not be made retroactively, but only forward from the day that the letter was received. Special circumstances should be discussed with the instructor.

University's Honesty Policy: UF students are bound by The Honor Pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The [Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

Grading: Grades will be changed only when an error has been made; negotiation is not appropriate.

Incompletes are only assigned when extraordinary circumstances (such as an accident, or extended hospitalization), arising after the date for dropping the course, prevent the student from completing the course requirements. Having a failing grade in the course is not a valid reason for requesting an Incomplete. Information on **Medical Withdrawal** or how to **Drop a class** can be found in UF's website.

Instructor / Course Evaluations: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Students will be notified when the evaluation period opens and instructions given on how to access them.

Other University Services

U Matter, We Care: Information on services offered at UF for students in distress:

<https://umatter.ufl.edu/>

Student Health Care Center: 352-392-1161 <https://shcc.ufl.edu/>

University Police Department, 352-392-1111 (or 9-1-1 for emergencies) <http://www.police.ufl.edu>

UF Computing Help Desk (including problems with e-learning): <http://helpdesk.ufl.edu/>

Weekly Schedule (Subject to change if needed)			STA3024 Summer A 2024		
Monday	Tuesday	Wednesday	Thursday	Friday	Sunday
5/13 Intro / Start Review Stats 1	5/14 Review Stats 1	5/15 Review Stats 1	5/16 Review Stats 1 HW 1 Due In Class	5/17 One-Way ANOVA	5/19 Online Quiz #1 Due @ 11:59 pm
5/20 One-Way ANOVA	5/21 Multiple Comparisons and Bonferroni	5/22 One-Way ANOVA Examples HW 2 Due In Class	5/23 One-Way ANOVA Examples	5/24 Two-Way ANOVA	5/26 Online Quiz #2 Due @ 11:59 pm
5/27 No Class Memorial Day	5/28 Two-Way ANOVA	5/29 SLR Basics and Regression Analysis HW 3 Due In Class	5/30 Inference with Regression	5/31 EXAM 1	6/2 Online Quiz #3 Due @11:59 pm
6/3 Inference with Regression	6/4 CI, PI, and Residuals	6/5 Multiple Regression Basics HW 4 Due In Class	6/6 Dummy Variables	6/7 Dummy Variables	6/9 Online Quiz #4 Due @11:59 pm
6/10 Choosing the Best Model	6/11 Choosing the Best Model	6/12 Contingency Tables HW 5 Due In Class	6/13 Contingency Tables	6/14 Contingency Tables	6/16 Online Quiz #5 Due @11:59 pm
6/17 Nonparametric Tests	6/18 Nonparametric Tests	6/19 No Class Juneteenth	6/20 Nonparametric Tests Online Quiz #6 Due @11:59 pm	6/21 EXAM 2	Semester Over