

Section: 7454 Period: 3 Room: Tur L007

Instructor: Jennifer Denson

office: Griffin Floyd 201

email: abderite@stat.ufl.edu

web: http://www.stat.ufl.edu/%7Eabderite/sta3024/homepage/homepage_STA%203024.htm

Instructor office hours:

Mon 10:30 am – 11:45 am

Fri 10:30 am – 11:45 am

or by appointment

TA: Haibing Gao

Office: Griffin Floyd 105

Office Hours: TBA

Course Description and Objectives

This course satisfies General Education Credits in the Mathematical Sciences (M and MR). Students learn how to summarize data and how to make appropriate decisions based on data.

The sequence of courses STA 2023-3024 provides students with a firm foundation in the basics of applied statistical methods. The prerequisite for this course is STA 2023, which covered chapters 1-9 in the textbook (Data collection, graphical and numerical summaries, probability and an introduction to statistical inference). Concepts from STA 2023 will be reviewed as needed. Introduction to Statistics II focuses on the following four topics:

1. **Analysis of Variance** to compare three or more population means
2. **Inference for Regression**, covering Simple Linear Regression and Multiple Regression.
3. **Analysis of Two-Way Tables** to study the relationship between two categorical variables.
4. **Nonparametric Statistics** that do not require a Normal distribution of the response variable.

Required Materials

1. **Introduction to the Practice of Statistics**, by Agresti and Franklin, Pearson Education, Pearson Prentice Hall, 2007.
2. **Scientific Calculator** (around \$10 to \$15) that has some basic statistical functions like mean and standard deviation (look for the following symbols: \bar{x} and either s or σ_{n-1}).

Course Website:

Announcements for the course will be linked from the course homepage:

http://www.stat.ufl.edu/%7Eabderite/sta3024/homepage/homepage_STA%203024.htm.

In **E-Learning/WebCT VISTA**, an integrated, password protected, Web based classroom management tool, you will be able to check all your grades. The E-Learning website is <http://lss.at.ufl.edu>. On the left, choose the bullets for E-Learning and Gatorlink, then click continue. From the next page you can log in by using your gatorlink id and password. **Note: The lectures for this class will NOT be available online.**

Suggested Homework Problems will appear on the website. They will help you master the material. I highly recommend working through the problems as preparation for the exam. The **answers** to odd-numbered problems appear in the back of the book. The answers to ALL problems appear in the Instructor's Solutions Manual that is on reserve at Marsden Science Library. You can also use Minitab to solve some of the homework problems assigned from the book. (More on Minitab later). The **data sets** for most homework problems are included in the data disk that comes with the textbook, and are also available on the publisher's website: <http://www.whfreeman.com/ips5e/>

Project There will be one project during the semester worth 100 points. Details on the project will be linked from the course website. This project must be submitted **on the due date IN CLASS** to receive credit. Projects submitted by email, in my mailbox, to the TA, or by any method other than in class submission WILL NOT receive credit.

Exams - There will be two exams given in class during the semester and the final exam, all in multiple choice format. **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 immediately, 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.

Course Assessment

Grade Structure

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Project	<u>100 points</u>
TOTAL	400 points

Grading Scale

A	90% to 100%
B+	85% to 89%
B	80% to 84%
C+	75% to 79%
C	65% to 74%
D	60% to 64% (No D+ given)
E	59% and below

Course Policies:

Email – Please check the announcements page and course syllabus for answers to your questions BEFORE emailing me. Also, please be aware that

statistical questions should be answered in person (in class or during office hours) since they often require pictures and formulas that make it very hard to communicate through email. In most cases, emails will be answered within two working days.

Attendance – although not required, is very highly recommended. This class is NOT offered online. If you miss a class for any reason, it is your responsibility to get a copy of the notes and all information given in class from another student. Additionally, during class students should turn off their cellular phones and refrain from eating, drinking, reading newspapers, doing homework and excessive talking.

Instructor's Honor Code - We the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

Academic Dishonesty - We adhere to the University of Florida rules and guidelines for handling instances of academic dishonesty. Please refer to the Office for Student Services for detailed information about the current policies.

Grading – grades will be changed only when an error has been made. Negotiation is not appropriate.

Incompletes are only assigned when extraordinary circumstances, 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.

Students with Disabilities - Students who require special accommodations in class or during exams should follow the procedures outlined by the Disability Resources Program (<http://www.dso.ufl.edu/drp/>). Please see the instructor during **office hours early in the semester**, to discuss your accommodation letter confidentially.