

STA 3024 Introduction to Statistics II Spring
2008

Class Hours : T : 1:55 – 2:45 (7th Period),
 R : 1:55 - 2:45, 3:00- 3:50 (7th and 8th period)
Meeting Place : NEB (New Engineering Building) Rm : 100

Instructor : Dhiman Bhadra

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Office Hours : MWRF: 4:05 – 5:05 pm

T : 3:00 – 4:00 pm

Teaching Assistant : Aixin Tan
Office : GF(Griffin Floyd Hall) 218
Office Hrs : MWF 1:55 – 3:50pm (7th and 8th periods)
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Course Description and Objectives

This course satisfies General Education Credits in the Mathematical Sciences. 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- 8 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 response variable to necessarily follow a Normal distribution.

Required Materials

1. Statistics: The Art and Science of Learning from Data, by Alan Agresti and Chris Franklin, Prentice Hall, 2007. **IMPORTANT** - you will need the whole book. Volume 1 of the book, which includes only chapters 1-9 and is used in STA 2023 is NOT sufficient. You can purchase the full book or, if you already have Volume 1, you can purchase Volume 2 to complete it.
2. For homework problems, exams and quizzes, a Calculator will be needed 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}). Any standard scientific or graphing calculator will do the job. You can continue using the calculator you used in STA 2023. **Please be aware that saving notes into your calculator and then accessing them during an exam is considered cheating and will be dealt with accordingly.**

The Course Website is : <http://www.stat.ufl.edu/~dbhadra>

Announcements for the course, lecture notes and other relevant information will be posted at this page.

Note: The lectures for this class will NOT be available online. You should try your best to attend all the classes. It is for your benefit.

Online Quizzes - There will be about 10 online quizzes, administered through E-learning. You will have three tries for each quiz (with questions randomly generated) over a period of approximately 3 - 4 days. Each quiz will be worth 10 points, for a total of 100 points. Hopefully these quizzes will serve the purpose of improving your grade in the class, as well as be an important tool in learning the material for the course. Quiz dates and details will be announced in class. Be aware that if you wait until the last second to take the quiz, you will get very little sympathy if you happen to have computer problems.

E-Learning / WebCT VISTA is an integrated, password protected, Web based classroom management tool. Once the semester is underway, you will be able to take the online quizzes and check all your grades through it. 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.

Suggested Homework Problems will appear on the website as the course progresses. They will help you master the material but will not be collected. 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 Marston Science Library. **But, before looking at the solutions manual, you should first try to do the problems yourself.** 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/>

Projects - There will be **ONE** data analysis project to be completed during the semester. The project will be worth 100 points. Project dates and details will be given in class. The projects 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 three exams given in class during the semester, each worth 100 points. All exams are in multiple choice format. You must bring your UFID, a calculator, and pencils to take the exams. **In case of conflict or illness**, if you are unable to take an exam at the scheduled time, you must get in touch with me 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. Please note that, wanting to leave early for summer is not a legitimate conflict for the final exam. Do not make travel plans that prevent you from being in Gainesville on 22nd April. Please tell your parents not to make any travel plans without informing you.

Exam 1	Tuesday, February 12, 2008 (in class)	Chapters 9 and 13
Exam 2	Tuesday, March 25, 2008(in class)	Chapters 11 and 12
Exam 3	Tuesday, April 22, 2008 (in class)	Chapters 10 and 14

Grade Structure

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Projects	100 points
Quizzes	100 points
TOTAL	500 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

Note : I may do a curve at the end of the semester if situation demands. But, this is not binding.

Course Policies:

Email will be answered within one working day in most cases. 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.

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, listening to music and 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 – I will 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 – I will change grades only when an error has been made. Negotiation is not appropriate.

Incomplete Grades 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 grade.

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.