

STA 3024 Section 5126

Introduction to Statistics 2 Summer B 2012

Meeting Time and Location	MTWRF 4th period (12:30–1:45pm) Pugh 170 (“Pugh Auditorium”)	
Course Website	http://www.stat.ufl.edu/~whitaker/sta3024/	
Instructor	Douglas Whitaker Griffin-Floyd 115A whitaker@stat.ufl.edu	Office Hours TWR 2–3pm or by appointment
Teaching Assistants	Shibasish Dasgupta McCarty C 427 dasgupta@stat.ufl.edu	TBA
	Trung Ha Griffin-Floyd 218 httrung@stat.ufl.edu	W 9:30–10:30am
	Keala Zhi Li Griffin-Floyd 105 keala31@stat.ufl.edu	T 9:30–10:30am
	Ruoxuan Xiang McCarty C 427 rxxiang@stat.ufl.edu	R 10–11am

Course Description and Objectives

STA 3024 is a second course in statistics that applies tools from STA 2023 to develop a variety of statistical methods that can be used to make decisions with data in the real world. This course is intended to be accessible to students without a mathematical background, as no concepts beyond basic algebra are required. The following topics will be covered, but in a possibly different order:

- Contingency tables and the chi-squared test
- Regression (simple and multiple)
- Analysis of variance in both one-way and two-way layouts
- Nonparametric methods

Since this course builds directly on material from STA 2023, concepts from that course will be briefly reviewed as needed.

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.

Textbook and Software

We will use all 15 chapters of *Statistics: The Art and Science of Learning from Data*, by Alan Agresti and Chris Franklin, Prentice Hall, second edition (2008). The first edition will also work, but the chapters, examples, and homework problems might be numbered differently. Although the textbook will not be used for any graded assignments or required readings, you will still find it useful as a source of extra problems and as a reference for additional information or alternative explanations.

Assignments may require the use of software from time to time. There are numerous computer labs on campus which have acceptable software installed; if you would like the software for your personal use, there are several commercial and free packages available. Specific requirements and assignments will be discussed in class.

Lecture Notes

I will post the lecture notes for each chapter on the course website before we start them. You can print these out and bring them to class to save yourself some writing. However, the notes posted online will be incomplete, so you will have to come to class to fill in the blank sections. If you miss a day of class, please try to get the notes from a friend (or a stranger) before you try asking me. Obviously you are free to ignore the posted notes if you prefer to take notes a different way.

Be aware that the pre-posted notes will not be a word-for-word transcript of exactly what we discuss in class. You will be responsible for all of the material that we cover in class, whether it is contained in the pre-posted notes or not. (However, you will not be responsible for anything not directly covered in class, like sections of the textbook that we skip.) From time to time, we may cover material that isn't covered in the book (or not covered as in depth as I would like) - you are still responsible for it.

Exams

Quasi-cumulative exams will be given during the normal class time on the following four dates:

- Friday, 13 July
- TBD
- TBD
- Friday, 10 August (*tentative*)

If you are unable to take an exam due to conflict or illness, you must contact me as soon as possible to discuss your options. Valid documentation will be required for any make-ups.

Homework

Homework assignments will be posted to the course website. The due date for each assignment will be announced when it is posted. Homework assignments might be written, online, or some combination of the two. Late assignments will not be accepted. You may work together on the assignments, but simply copying another student's paper is considered cheating and will be dealt with accordingly.

There will be multiple forms for each assignment, and your form will be based on your UFID number. Not all problems will be graded, though you are expected to do every problem. The problems that will be graded won't be announced in advance.

Homework grades will be posted online (through Sakai), but assignments will not be given back during class time to maintain compliance with FERPA (because giving back hundreds of assignments during class time would be a logistical nightmare that would raise serious privacy concerns). All assignments may be picked up from your TA in their office hours or by appointment.

I will also post a list of suggested problems from the textbook. These problems will not be collected, but they are a good way to help yourself learn the material.

Attendance

Attendance is mandatory, but there will be no attendance component to the grade.

Calculators

For exams and homework assignments, you will need a calculator that can at least do arithmetic and square roots. Any scientific calculator will work or graphing calculators

will work, but devices with the ability to save notes or communicate will not be allowed. Essentially, if it worked for STA 2023 it will work for this class. If you have any questions about if a particular calculator is permitted, please ask me.

Grading

Your semester grade will be calculated as follows:

<i>Source</i>	<i>Points</i>	<i>Points</i>	<i>Grade</i>	<i>GPA</i>
Exam 1	50 points	[418, 450]	A	4.00
Exam 2	100 points	[369, 418)	B	3.00
Exam 3	100 points	[315, 369)	C	2.00
Exam 4	100 points	[270, 315)	D	1.00
Assignments	100 points	[0, 270)	E	0.00
Total	450 points			

Plus and minus grades *will* be given; cutoffs for these grades will be given later in the course. Moreover, the grading scale *may* be changed depending on overall class performance, but this is **not** a guarantee. The cutoffs will not increase for any reason. Haggling for points is not appropriate.

In compliance with UF Statistics Department policy, I will not give grades of D+ or D-.

Extra Help

The Teaching Center, located in Broward Hall, provides free tutoring for UF students in a variety of subjects including this course. More information, particularly the tutoring times for this course, can be found at <http://teachingcenter.ufl.edu>. Both walk-in tutoring (no appointment necessary) and private appointments are available.

Incomplete Grades

An incomplete grade will only be given under extraordinarily extenuating circumstances that prevent the student from completing the course requirements. Having a failing grade in the course is not by itself an extraordinarily extenuating circumstance.

Students with Disabilities

Any student requesting accommodation for disabilities must first register with the Dean of Students Office, who will provide documentation to the student, who must then provide this documentation to me privately as soon as possible.

Privacy Policies

Student records are confidential. Only information designated as UF directory information may be released without your written consent. This includes requests from parents or anyone else who contacts me about your performance in the class.

Academic Honesty

All students are required to abide by UF's academic honesty guidelines. For students in this course, the relevant portions can be summarized as follows: Do not cheat.

Syllabus

Changes may be made to this document; substantive changes will be announced in class. This document was last updated on July 9, 2012.