Course description

In this course you will acquire a working knowledge of basic statistical methods for analyzing and understanding data. Topics covered:

- descriptive statistics and graphical summaries
- data collection principles
- probability
- sampling distributions
- confidence intervals
- hypothesis testing
- analysis of categorical data
- simple linear regression

This course is administered via MyStatLab online platform. Students will have access to online tools such as multimedia textbook, adjustable study plan, practice exercises and video materials to independently improve their understanding and performance. There are no formal lectures in this course. People vary in their favored way to study and learn and in the degree to which such things as the multimedia materials are helpful, therefore students are encouraged to take advantage of the tools that work best for their learning style.

Prerequisites:

High school level algebra. Calculus is not required, although the mathematical sophistication it imparts can be helpful.

Course Expectations:

The course is very fast-paced with new material being covered each day. You are expected to keep up to the pace of the course, which includes daily reading and homework assignments, and check MyStatLab website regularly.
Textbook

The textbook for this course is *Statistics: The Art and Science of Learning from Data, 3rd Ed.* by A. Agresti and C. Franklin. The textbook is available online via MyStatLab so there is no need to purchase a hard copy.

Online Access:

The course materials are available online through MyStatLab, the course ID is gaynanova85344 and the course name is ILRST2100/STSCI2100 Winter 2015. To register online and purchase the course materials, click on the "Student" tab under the Register heading, enter gaynanova85344 in the course ID box and click "Continue". Click "Create" to set up your account and enter the required information. More detailed registration instructions can be found online at http://www.pearsonmylabandmastering.com/northamerica/students/get-registered. Make sure to gain access to the course website before the course start date, December 26th, 2014.

Communication:

All important information will be posted via announcements on MyStatLab website. You are encouraged to use the Discussions board to ask questions about the homework assignments and the course material.

Homework:

We will have daily homework assignments, which are submitted via MyStatLab platform. **No late homeworks will be accepted for any reason.** The lowest homework score will be removed before the calculation of your final grade.

Grading

Your final grade will be determined based on your performance on homeworks (30%), mid-term exam (35%) and final exam (35%). Study plan and practice quizzes available from MyStatLab website do not affect your grade.

Academic Integrity

Each student in this course is expected to adhere to the Cornell University Code of Academic Integrity. Students must in no way misrepresent their work, fraudulently or unfairly advance their academic status, or be a party to another students’ failure to maintain academic integrity. The full Code of Academic Integrity may be found at http://cuinfo.cornell.edu/Academic/AIC.html.