

Syllabus
STA 202
Block 2, Fall 2018

Instructor: Ann Cannon

Office: Law 206B

Office Hours: 11-12 days with afternoon class; 1:30-2:30 days without afternoon class
Others by appointment

Office Phone: 4461

Home Phone: 455-2373

Prerequisite: STA 201 or AP Stat score of 3, 4 or 5.

Meeting Times: We will meet Monday through Friday from 9-11. Afternoon classes will be from 1:15-2:45. First week we will meet all afternoons, except Thursday; during the second week and third weeks we will meet MWF afternoons from 1:15-2:45.

Text: We will be using STAT 2: Building Models for a World of Data, 2nd edition. This edition has not yet been printed, but we have been giving permission to use pdfs of the chapters. **Note:** We have been given special permission to have downloadable files, rather than files you must read online. **By downloading the files you are agreeing not to share them with anyone else.** I will post the chapters that we are using, as we need them, on Moodle. We will be covering chapters 0-3, 5-7, 9-10, and parts of 4 and 8.

Learning Objectives: This course supports the Educational Priorities and Outcomes of Cornell College with emphases on knowledge, inquiry, communication, reasoning, and ethical behavior. Specifically, the learning objectives of this course are:

- Ability to communicate statistical ideas clearly and accurately (communication).
- Understand the modeling approach to statistics (knowledge, reasoning).
- Understand simple and multiple linear models (knowledge, reasoning).
- Understand one- and two-way ANOVA models (knowledge, reasoning).
- Understand simple and multiple logistic models (knowledge, reasoning).
- Ability to work in groups to perform a statistical analysis and report the results (communication, reasoning).
- Ability to ascertain which type of analysis is appropriate for a particular data set and question (inquiry, reasoning, ethical behavior).
- Become more adept at following the statistical process of starting with a question, collecting the requisite data, analyzing the data, and reporting on the results (inquiry, reasoning, communication).

Drop Policy: I follow the official college drop policy; i.e. in order to be eligible for a third Friday drop, all absences must be excused by me and you must complete all course work, including in-class activities.

Learning Disabilities: The official Cornell College policy is as follows. Cornell College makes reasonable accommodations for persons with disabilities. Students

should notify the Coordinator of Academic Support and Advising and their course instructor of any disability related accommodations within the first three days of the term for which the accommodations are required, due to the fast pace of the block format. For more information on the documentation required to establish the need for accommodations and the process of requesting the accommodations, see <http://www.cornellcollege.edu/academic-support-and-advising/disabilities/index.shtml>.

Academic Honesty: The official Cornell College statement is as follows. Cornell College expects all members of the Cornell community to act with academic integrity. An important aspect of academic integrity is respecting the work of others. A student is expected to explicitly acknowledge ideas, claims, observations, or data of others, unless generally known. When a piece of work is submitted for credit, a student is asserting that the submission is her or his work unless there is a citation of a specific source. If there is no appropriate acknowledgement of sources, whether intended or not, this may constitute a violation of the College's requirement for honesty in academic work and may be treated as a case of academic dishonesty. The procedures regarding how the College deals with cases of academic dishonesty appear in The Catalogue, under the heading "Academic Honesty." I will follow the college policy. Note that this means I will **charge you formally** with the registrar's office if I find you have violated this policy.

Grading: There will be two exams, five smaller data analysis projects, a larger group data analysis project that will include collecting the data, two quizzes/examlets (50 points each), and homework in this class. The exams will consist of a 100-point mid-term exam on Thursday, October 4, and a 150-point final exam on Wednesday, October 17. The group data analysis project will be due on Monday, October 15. The due dates for the four smaller projects will be announced in class. More information about all projects will be handed out separately. Tests and quizzes do not have a time limit to them except for the final. The final is from 8-12 on the last Wednesday.

Homework: You can expect to be assigned exercises from the book every night. You will be expected to complete all assignments given. While I do not collect your answers to book exercises, we will go over questions about the homework at the beginning of every morning class. Note that students who complete the assigned exercises are much more likely to do well in this class.

Grades will be based primarily on your performance on quizzes, exams, and projects according to the following schedule:

Quizzes	100 pts.
Exam 1	100 pts.
Smaller projects	100 pts.
Final Exam	150 pts.
Data Analysis Project	100 pts.
Total	550 pts.