**Syllabus**

**STA/CSC 223**

**Block 5, 2019**

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| **Instructor:** Ann Cannon | **Instructor:** Tony deLaubenfels |
| **Office:** Law 206B | **Office:** Law 222 |
| **Office Hours:** MWF 11-12, TTh 3-4 | **Office Hours:** M-F 3-4 |
| **Office Phone:** 4461 | **Office Phone:** 4295 |

**Prerequisite:** Either STA 201 or CSC 140.

**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 importance of and techniques for collecting data (knowledge, reasoning, ethical behavior).
* Ability to appropriately clean data (knowledge, reasoning, ethical behavior).
* Ability to display and interpret data (knowledge, reasoning, communication).
* Understand simple linear models (knowledge, reasoning).
* Ability to follow the statistical process of starting with a question, collecting the requisite data, analyzing the data, and reporting on the results (inquiry, reasoning, communication).
* Understand fundamental programming concepts that will allow you to easily adapt to new computational environments (knowledge, reasoning).
* Learn to design and specify solutions to problems in a systematic way using logic and mathematical reasoning (knowledge, reasoning).
* Develop communication skills related to working successfully in a group and presenting your research results to others (communication).

**Meeting Times:** Class will generally meet 9 – 11 in Law 103 and 1-3 in Law 113. Class times may change occasionally, but we will announce any changes.

**Text:** There is no official text for the course. All materials will be provided on the Moodle page for CSC 223.

**Projects:** There will be three major projects in this class. The first will be the focus of the afternoon lab time for the first week and will be due on Tuesday, January 22 at 9:00 AM. The second will be the focus of the afternoon lab time during the second week and will be due on Tuesday, January 29 at 9:00 AM. The third project will be the focus of the third week of afternoon lab, but you will work on it the whole block. The final piece of that project will be due Wednesday, February 6 at 12:00 PM with other pieces due each Friday at 9:00 AM and presentations on Tuesday, February 5. More information on each project will be handed out separately.

**Drop Policy:** We follow the official college drop policy; i.e. in order to be eligible for a third Friday drop, all absences must be excused by us 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 isexpected 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." We will follow the college policy. Note that this means we will **charge you formally** with the registrar’s office if we find you have violated this policy.

**Grading:** Grades will be based on a combination of your work on the projects, your participation in class, and smaller assignments given throughout the term:

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| Final Project | 55% |
| Initial Proposal | 5% |
| Group Proposal | 15% |
| Initial Report | 15% |
| Final Report | 20% |
| Race Results Project | 20% |
| Twitter Data Project | 20% |
| Participation | 5% |

All project assignments will be graded by both instructors.

**Late work:** Late work will generally not be accepted. Pay attention to deadlines. Work is almost always due by 9:00 AM on the due date. If an item is incomplete at the deadline, you should go ahead and submit what you have in order to receive partial credit.